

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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	Edison Operating Company LLC
Well Name	DUDREY 2-23
Doc ID	1566692

All Electric Logs Run

DUCP
MICRO
DUAL INDUCTION
SONIC



DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

ATTN: Adam Kennedy

Dudrey #2-23

23-25s-13w Staffors

Start Date: 2021.03.17 @ 14:08:00

End Date: 2021.03.17 @ 19:23:00

Job Ticket #: 192 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2021.03.17 @ 19:43:34



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 192

DST#: 1

ATTN: Adam Kennedy

Test Start: 2021.03.17 @ 14:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:00

Time Test Ended: 19:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No:

Interval: 4178.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4248.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9119

Inside

Press@RunDepth: 341.08 psig @ 4244.26 ft (KB)

Capacity: 5000.00 psig

Start Date: 2021.03.17

End Date: 2021.03.17

Last Calib.: 2021.03.17

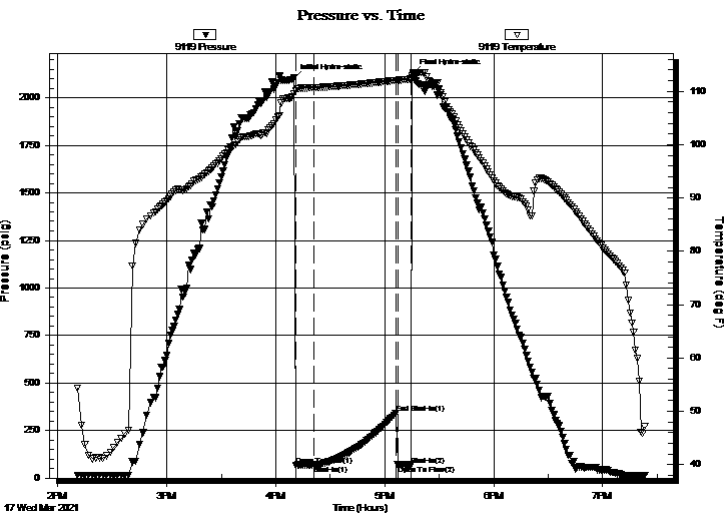
Start Time: 14:08:00

End Time: 19:23:30

Time On Btm: 2021.03.17 @ 16:10:00

Time Off Btm: 2021.03.17 @ 17:15:30

TEST COMMENT: 1st Opening 10 Minutes Verry weak surface blow
1st Shut-In 45 Minutes
2nd Opening 10 Minutes no blow pulled tool after 10 minutes
2nd Shut-In None Taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.30	109.58	Initial Hydro-static
1	68.74	110.13	Open To Flow (1)
11	69.84	110.69	Shut-In(1)
56	341.08	112.07	End Shut-In(1)
57	69.66	112.06	Open To Flow (2)
65	69.96	112.30	Shut-In(2)
66	2129.37	113.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	drilling mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

ATTN: Adam Kennedy

Job Ticket: 192

DST#: 1

Test Start: 2021.03.17 @ 14:08:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:00

Time Test Ended: 19:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No:

Interval: 4178.00 ft (KB) To 4248.00 ft (KB) (TVD)

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4248.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9139 Outside

Press@RunDepth: 319.95 psig @ 4245.26 ft (KB)

Capacity: 5000.00 psig

Start Date: 2021.03.17 End Date: 2021.03.17

Last Calib.: 2021.03.17

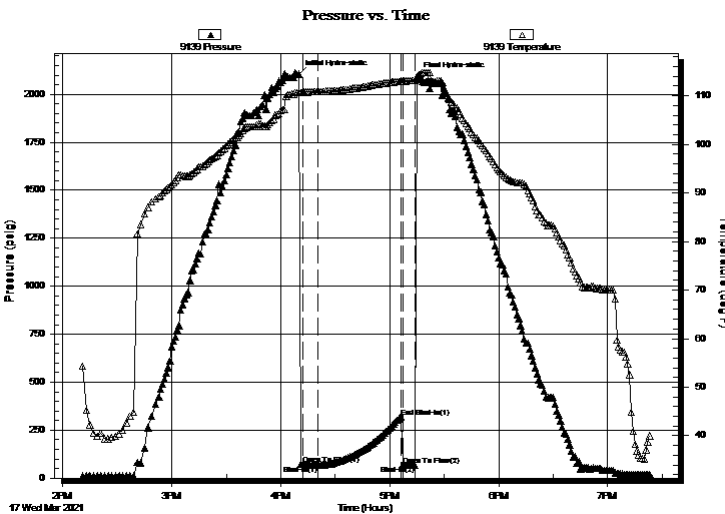
Start Time: 14:08:00 End Time: 19:23:00

Time On Btm: 2021.03.17 @ 16:10:00

Time Off Btm: 2021.03.17 @ 17:15:00

TEST COMMENT: 1st Opening 10 Minutes Verry weak surface blow
1st Shut-In 45 Minutes
2nd Opening 10 Minutes no blow pulled tool after 10 minutes
2nd Shut-In None Taken

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.33	110.77	Initial Hydro-static
2	71.43	110.73	Open To Flow (1)
11	69.07	110.84	Shut-In(1)
56	319.95	112.98	End Shut-In(1)
57	69.13	113.00	Open To Flow (2)
64	67.58	113.12	Shut-In(2)
65	2092.50	113.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	drilling mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 192

DST#: 1

ATTN: Adam Kennedy

Test Start: 2021.03.17 @ 14:08:00

Tool Information

Drill Pipe:	Length: 4180.00 ft	Diameter: 3.80 inches	Volume: 58.63 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: 90000.00 lb
			<u>Total Volume: 58.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4178.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.26 ft			
Tool Length:	98.26 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			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	6.00			4166.00	
Safety Joint	2.00		Fluid	4168.00	
Top Packer	5.00			4173.00	
Packer	5.00			4178.00	28.00 Bottom Of Top Packer
Change Over Sub	0.75			4178.75	
Drill Pipe	31.76			4210.51	
Change Over Sub	0.75			4211.26	
Anchor	32.00			4243.26	
Recorder	1.00	9119	Inside	4244.26	
Recorder	1.00	9139	Outside	4245.26	
Bullnose	3.00			4248.26	70.26 Anchor Tool

Total Tool Length: 98.26



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 192

DST#: 1

ATTN: Adam Kennedy

Test Start: 2021.03.17 @ 14:08:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.79 in³
Resistivity: ohm.m
Salinity: 6800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	drilling mud	0.140

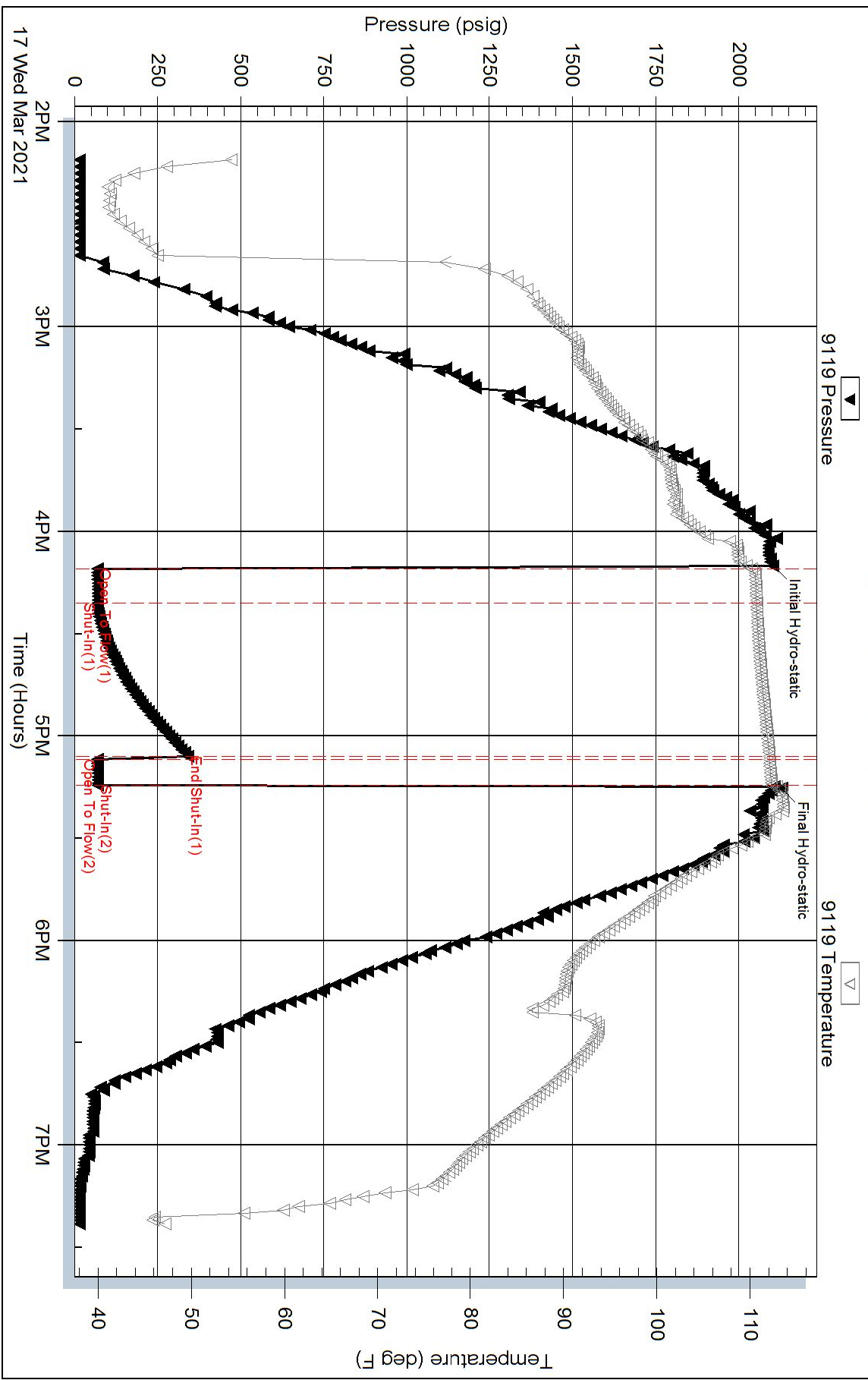
Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

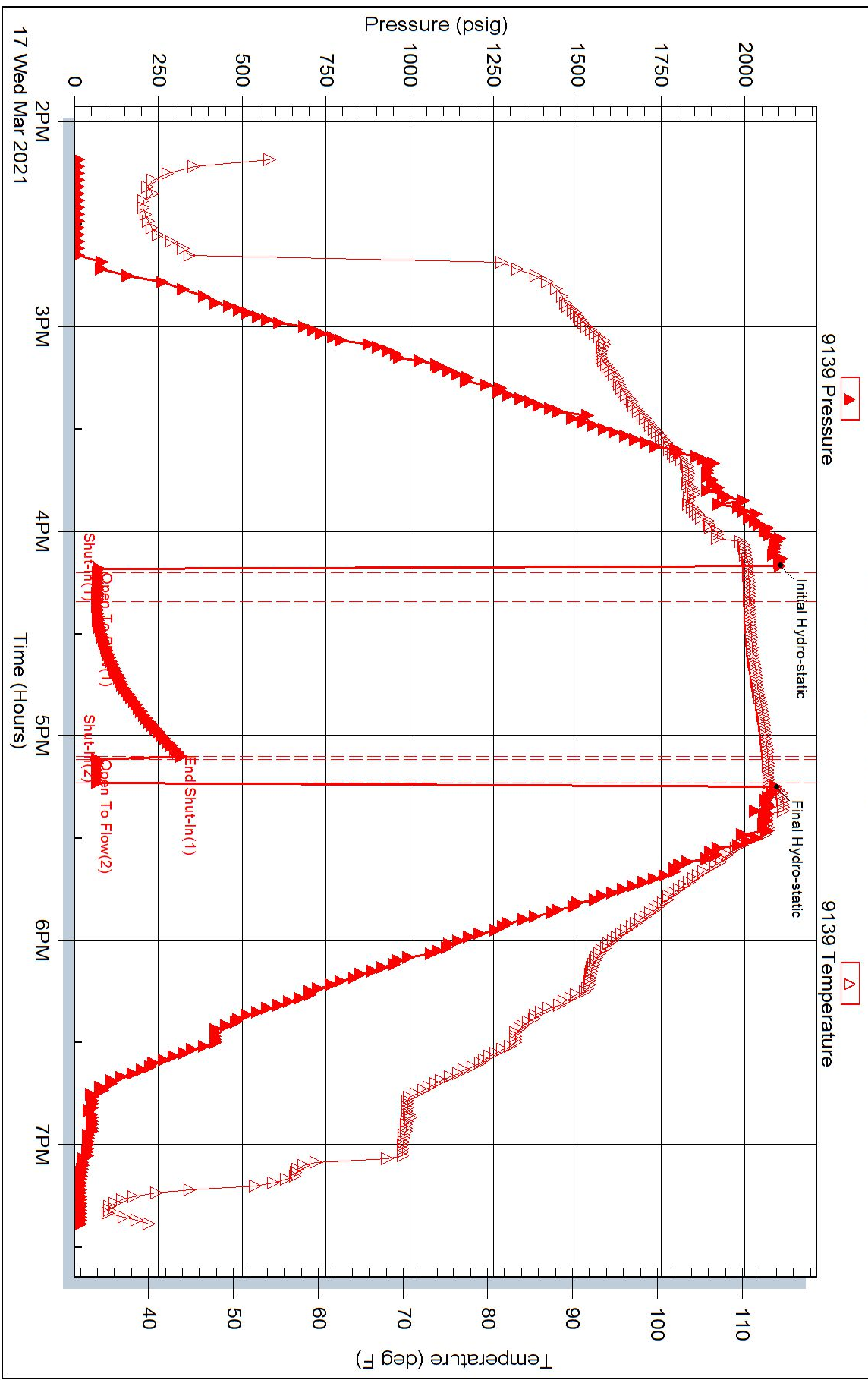
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

ATTN: Adam Kennedy

Dudrey #2-23

23-25s-13w Staffors

Start Date: 2021.03.18 @ 03:06:00

End Date: 2021.03.18 @ 00:00:00

Job Ticket #: 1465 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2021.03.18 @ 09:07:00



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 1465

DST#: 2

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 03:06:00

GENERAL INFORMATION:

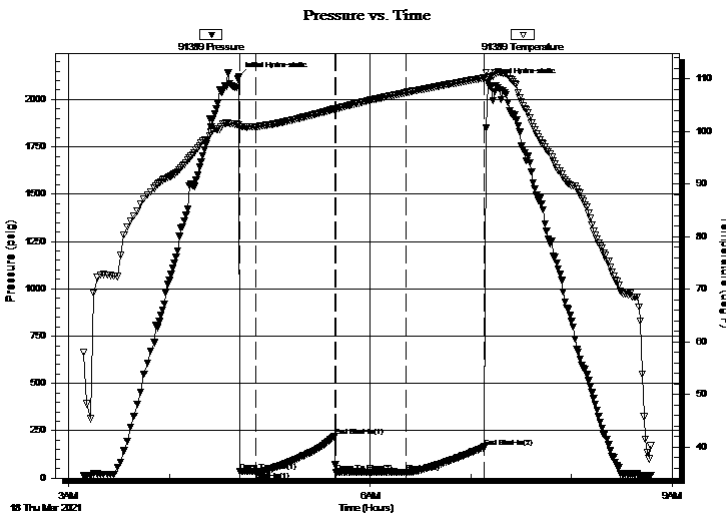
Formation: **Arvbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:43:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No:
 Interval: **4247.00 ft (KB) To 4257.00 ft (KB) (TVD)** Reference Elevations: 1933.00 ft (KB)
 Total Depth: 4257.00 ft (KB) (TVD) 1923.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 91389

Press@RunDepth: 165.53 psig @ ft (KB) Capacity: psig
 Start Date: 2021.03.18 End Date: 2021.03.18 Last Calib.: 1899.12.30
 Start Time: 03:06:00 End Time: 08:47:30 Time On Btm: 2021.03.18 @ 04:41:30
 Time Off Btm: 2021.03.18 @ 07:10:00

TEST COMMENT: 1st Opening 10 minutes Very weak surface blow
 1st Shut-In 45 Minutes
 2nd Opening 45 Minutes weak blow built to 4 inches
 2nd Shut-In 45 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.98	101.26	Initial Hydro-static
1	35.17	100.86	Open To Flow (1)
10	35.02	100.95	Shut-In(1)
57	221.24	104.29	End Shut-In(1)
58	30.22	104.33	Open To Flow (2)
100	31.32	107.40	Shut-In(2)
147	165.53	110.20	End Shut-In(2)
149	2089.74	110.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 feet gas in the pipe	0.00
10.00	oilcut mud 10% Oil 90% Mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 1465

DST#: 2

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 03:06:00

GENERAL INFORMATION:

Formation: **Arvbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:43:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No:

Interval: 4247.00 ft (KB) To 4257.00 ft (KB) (TVD)

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4257.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9119

Press@RunDepth: 177.92 psig @ ft (KB)

Capacity: psig

Start Date: 2021.03.18

End Date: 2021.03.18

Last Calib.: 1899.12.30

Start Time: 03:06:00

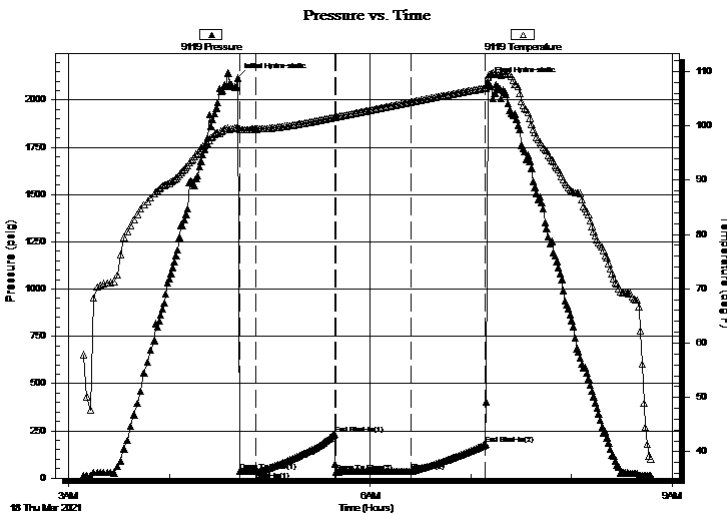
End Time: 08:47:30

Time On Btm: 2021.03.18 @ 04:41:00

Time Off Btm: 2021.03.18 @ 07:10:00

TEST COMMENT: 1st Opening 10 minutes Very weak surface blow
1st Shut-In 45 Minutes
2nd Opening 45 Minutes weak blow built to 4 inches
2nd Shut-In 45 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.26	99.74	Initial Hydro-static
1	35.41	99.34	Open To Flow (1)
11	38.16	99.39	Shut-In(1)
58	233.31	101.59	End Shut-In(1)
59	31.33	101.61	Open To Flow (2)
103	36.45	104.37	Shut-In(2)
148	177.92	106.93	End Shut-In(2)
149	2098.59	108.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	60 feet gas in the pipe	0.00
10.00	oilcut mud 10% Oil 90% Mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 1465

DST#: 2

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 03:06:00

Tool Information

Drill Pipe:	Length: 4244.00 ft	Diameter: 3.80 inches	Volume: 59.53 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: 75000.00 lb
			<u>Total Volume: 59.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4247.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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			4224.00	
Hydraulic tool	5.00			4229.00	
Jars	6.00			4235.00	
Safety Joint	2.00		Fluid	4237.00	
Top Packer	5.00			4242.00	
Packer	5.00			4247.00	28.00 Bottom Of Top Packer
Anchor	5.00			4252.00	
Recorder	1.00	9119	Inside	4253.00	
Recorder	1.00	9139	Outside	4254.00	
Bullnose	3.00			4257.00	10.00 Anchor Tool
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company LLC

23-25s-13w Staffors

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 1465

DST#: 2

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 03:06:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 6800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

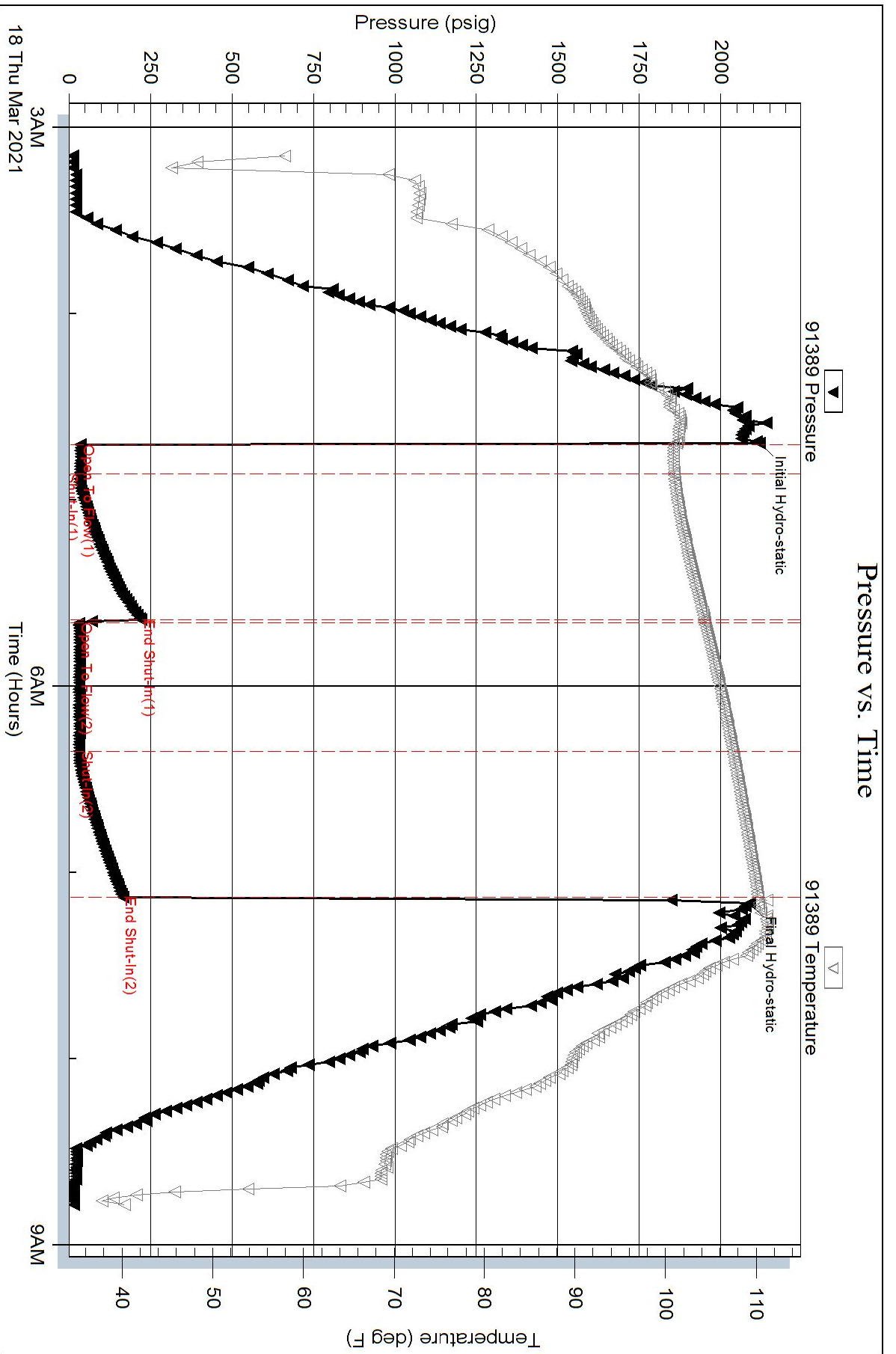
Length ft	Description	Volume bbl
0.00	60 feet gas in the pipe	0.000
10.00	oilcut mud 10% Oil 90% Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

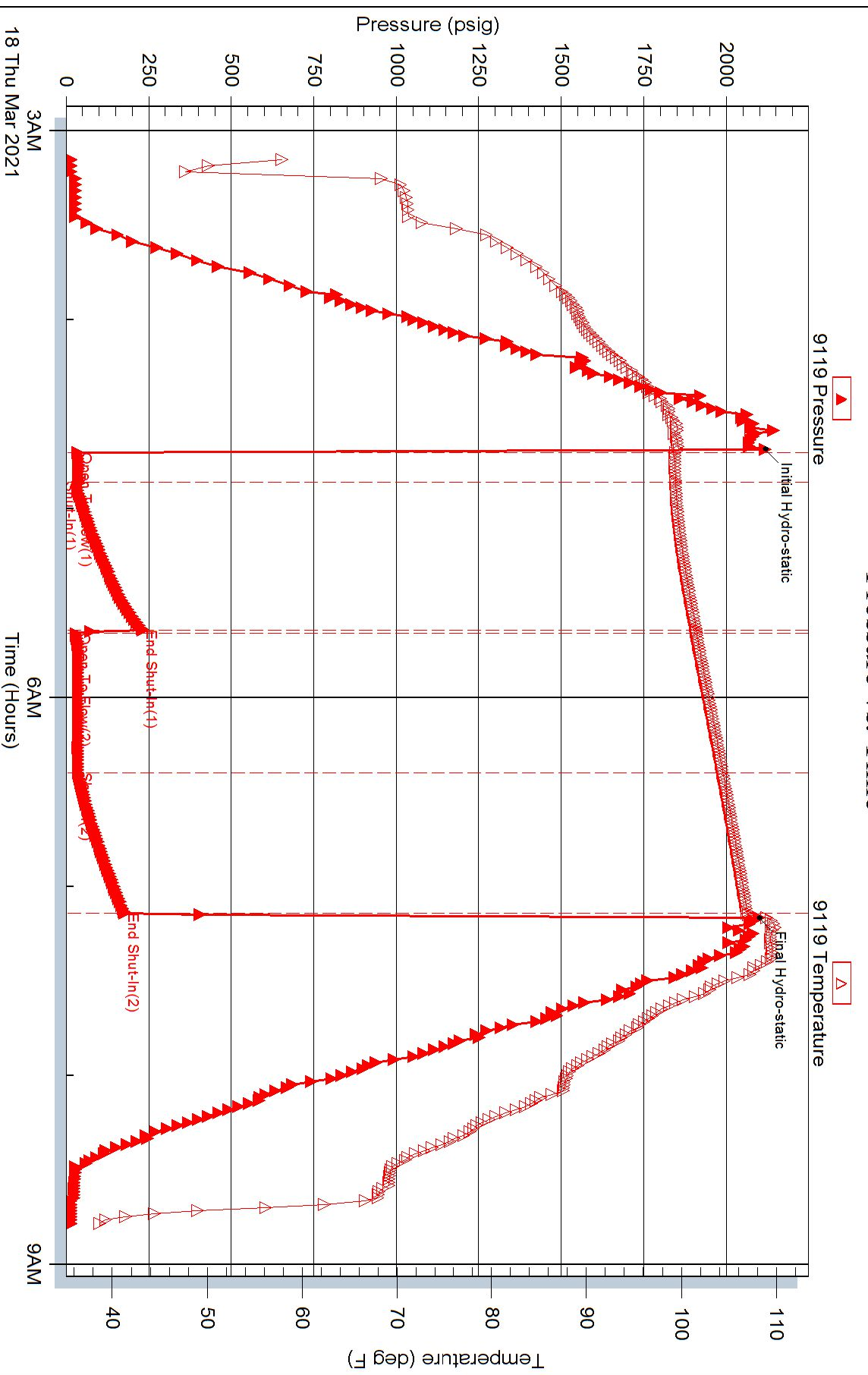
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

ATTN: Adam Kennedy

Dudrey #2-23

23-25s-13w Stafford

Start Date: 2021.03.18 @ 17:06:00

End Date: 2021.03.18 @ 21:27:00

Job Ticket #: 01466 DST #: 3

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2021.03.18 @ 21:41:21



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 01466

DST#: 3

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 17:06:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:30:00

Time Test Ended: 21:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No:

Interval: 4269.00 ft (KB) To 4276.00 ft (KB) (TVD)

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4276.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9139 Outside

Press@RunDepth: 1353.22 psig @ 4273.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2021.03.18

End Date: 2021.03.18

Last Calib.: 2021.03.18

Start Time: 17:06:00

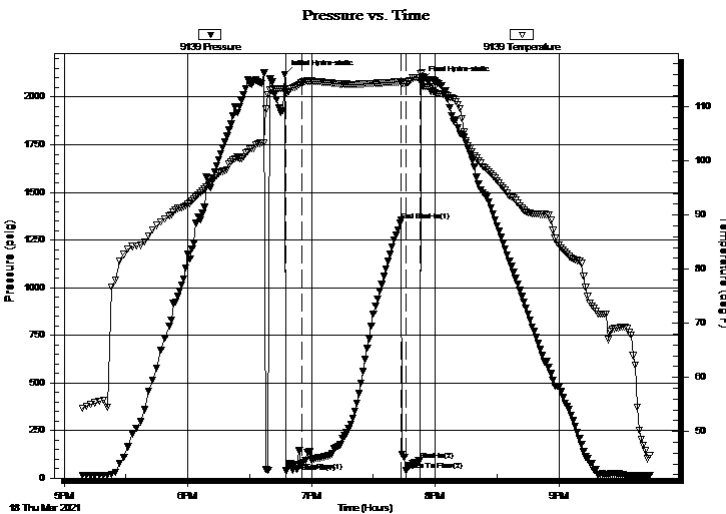
End Time: 21:44:00

Time On Btm: 2021.03.18 @ 18:46:59

Time Off Btm: 2021.03.18 @ 19:53:30

TEST COMMENT: 1st Opening 10 minutes good surge 6-8 bubbles and died
1st Shut-In 45 Minutes
2nd Opening 10 Minutes no blow came out of the hole
2nd Shut-In none taken

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.78	113.43	Initial Hydro-static
1	38.50	112.66	Open To Flow (1)
9	76.04	114.50	Shut-In(1)
57	1353.22	114.63	End Shut-In(1)
60	42.38	114.31	Open To Flow (2)
66	95.43	115.46	Shut-In(2)
67	2084.39	116.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drilling mud no show of oil	0.07

Gas Rates

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



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 01466

DST#: 3

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 17:06:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:30:00

Time Test Ended: 21:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No:

Interval: **4269.00 ft (KB) To 4276.00 ft (KB) (TVD)**

Total Depth: 4276.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1933.00 ft (KB)

1923.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1368.63 psig @ 4272.00 ft (KB)

Start Date: 2021.03.18

End Date: 2021.03.18

Start Time: 17:06:00

End Time: 21:44:00

Capacity: 5000.00 psig

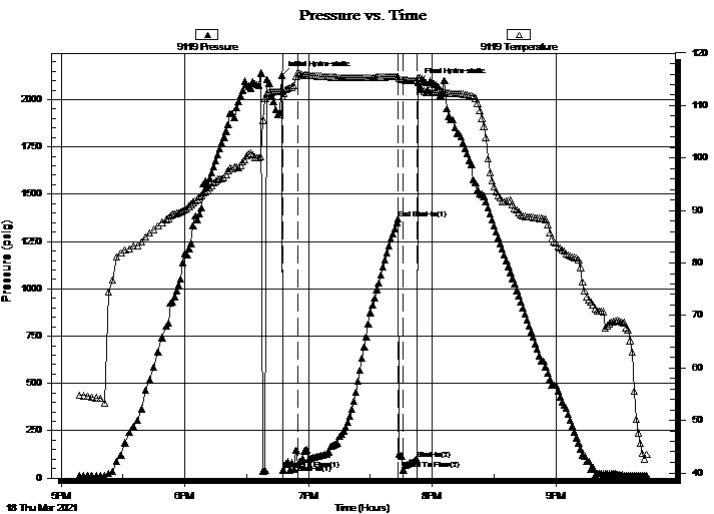
Last Calib.: 2021.03.18

Time On Btm: 2021.03.18 @ 18:47:00

Time Off Btm: 2021.03.18 @ 19:53:00

TEST COMMENT: 1st Opening 10 minutes good surge 6-8 bubbles and died
1st Shut-In 45 Minutes
2nd Opening 10 Minutes no blow came out of the hole
2nd Shut-In none taken

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2128.60	112.72	Initial Hydro-static
1	44.43	111.69	Open To Flow (1)
8	73.68	116.31	Shut-In(1)
57	1368.63	115.51	End Shut-In(1)
59	44.70	114.93	Open To Flow (2)
66	99.96	114.77	Shut-In(2)
66	2089.36	115.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drilling mud no show of oil	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company LLC

23-25s-13w Stafford

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 01466

DST#: 3

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 17:06:00

Tool Information

Drill Pipe:	Length: 4270.00 ft	Diameter: 3.80 inches	Volume: 59.90 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: 65000.00 lb
			<u>Total Volume: 59.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4269.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	35.00 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			4246.00	
Hydraulic tool	5.00			4251.00	
Jars	6.00			4257.00	
Safety Joint	2.00		Fluid	4259.00	
Top Packer	5.00			4264.00	
Packer	5.00			4269.00	28.00 Bottom Of Top Packer
Anchor	2.00			4271.00	
Recorder	1.00	9119	Inside	4272.00	
Recorder	1.00	9139	Outside	4273.00	
Bullnose	3.00			4276.00	7.00 Anchor Tool
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company LLC

23-25s-13w Stafford

8100 east 22nd Street Building 1900
Wichita, Kansas 67226

Dudrey #2-23

Job Ticket: 01466

DST#: 3

ATTN: Adam Kennedy

Test Start: 2021.03.18 @ 17:06:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 7400.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drilling mud no show of oil	0.070

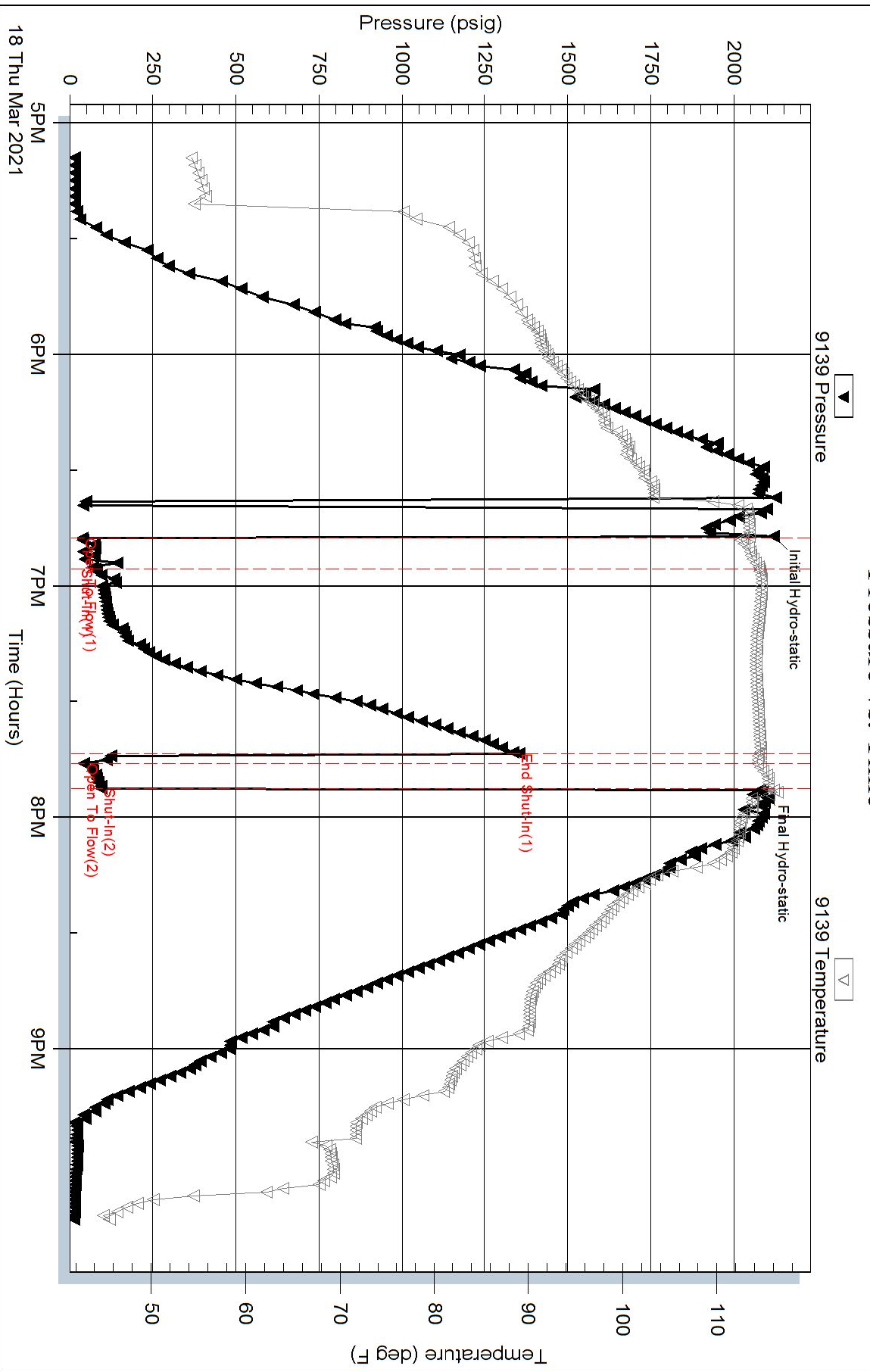
Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

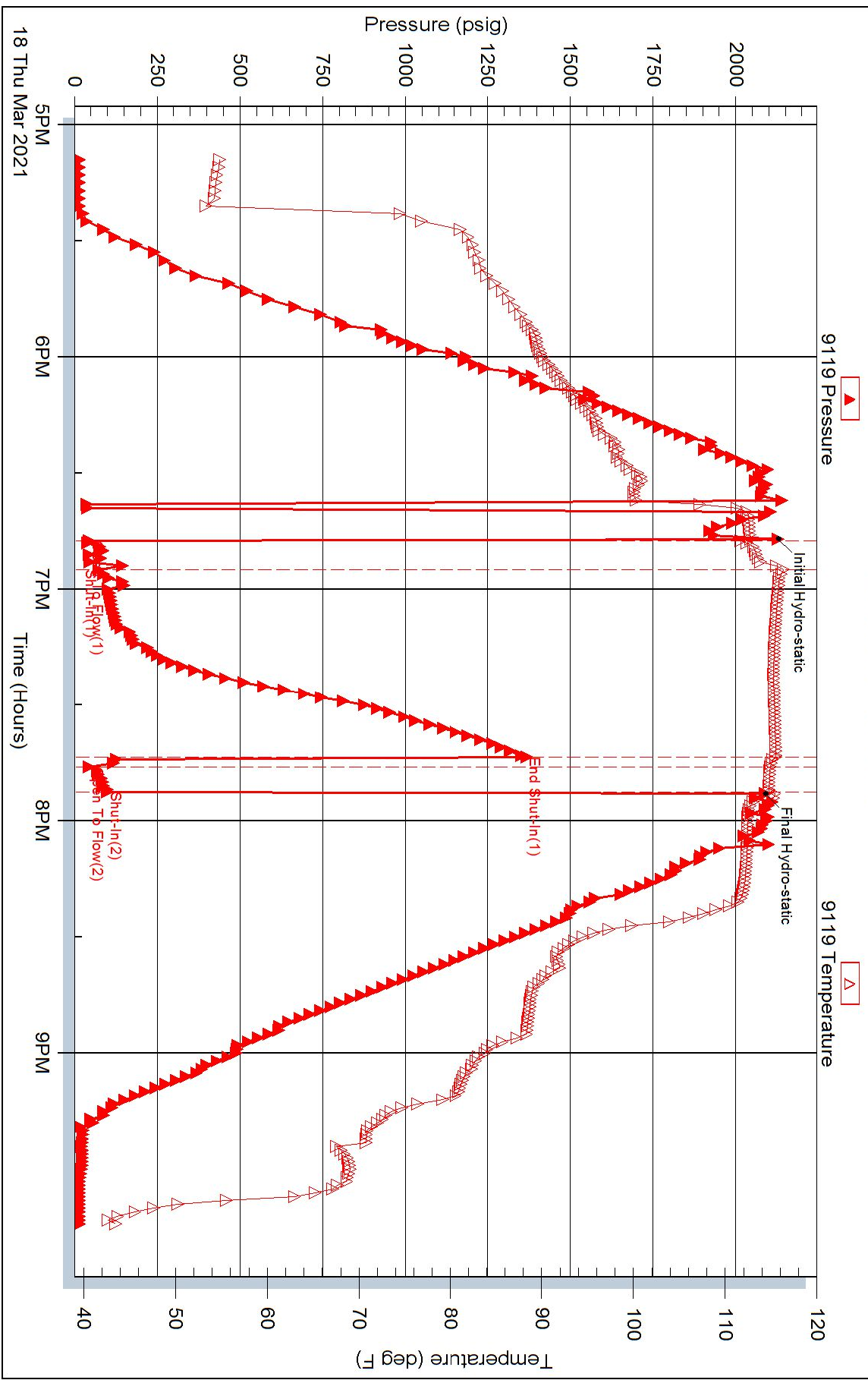
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
EDISON OPERATING CO LLC
8100 E 22ND ST N
BUILDING 1900
WICHITA, KS 67226

Invoice Date: 3/10/2021
Invoice #: 0351905
Lease Name: Dudrey
Well #: 2-23 (New)
County: Stafford, Ks
Job Number: WP1201
District: Pratt

Date/Description	HRS/QTY	Rate	Total
8 5/8" Surface	0.000	0.000	0.00
H-CON	175.000	17.850	3,123.75
Cement Class A	175.000	14.450	2,528.75
Calcium Chloride	825.000	0.638	525.94
Cello Flake	88.000	1.488	130.90
Wooden plug 8 5/8"	1.000	127.500	127.50
Light Eq Mileage	20.000	1.700	34.00
Heavy Eq Mileage	20.000	3.400	68.00
Ton Mileage	330.000	1.275	420.75
Cement Pump Service	1.000	637.500	637.50
Cement Plug Container	1.000	212.500	212.50

*CEMENT FOR 8 5/8" SURF CSN
9232
2.*

Total 7,809.59

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer: EDISON OPERATING, LLC		Lease & Well #: DUDREY 2-23		Date: 3/10/2021		
Service District: PRATT,KS		County & State: STAFFORD,KS		Legals S/TR: 23-25S-13W		
Job Type: 8 5/8" SURFACE		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No		
Ticket #: WP1201						
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures				
75	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging	
176-521	McLAMORE	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection	
181-532	MARTINEZ	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations	
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations	
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below		
Comments						
8 5/8" SURFACE PIPE						
Product/Service Code						
Description		Unit of Measure	Quantity	Net Amount		
CP025	H-Con	sack	175.00		\$3,123.75	
CP010	Class A Cement	sack	175.00		\$2,526.75	
CP100	Calcium Chloride	lb	825.00		\$525.94	
CP120	Cello-flake	lb	88.00		\$130.90	
FE250	8 5/8" Wooden Plug	ea	1.00		\$127.50	
M015	Light Equipment Mileage	mi	20.00		\$34.00	
M010	Heavy Equipment Mileage	mi	20.00		\$68.00	
M020	Ton Mileage	tn	330.00		\$420.75	
C010	Cement Pump Service	ea	1.00		\$637.50	
C050	Cement Plug Container	job	1.00		\$212.50	
Customer Section: On the following scale how would you rate Hurricane Services Inc.?					Net:	\$7,809.59
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely					Total Taxable \$ - Tax Rate: State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	Sale Tax: \$ - Total: \$ 7,809.59
HSI Representative:					KEVIN LESLEY	

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x 

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer: EDISON OPERATING, LLC	Well: DUDREY 2-23	Ticket: WP1201
City, State:	County: STAFFORD,KS	Date: 3/10/2021
Field Rep: RICK POPP	S-T-R: 23-25S-13W	Service: 8 5/8" SURFACE

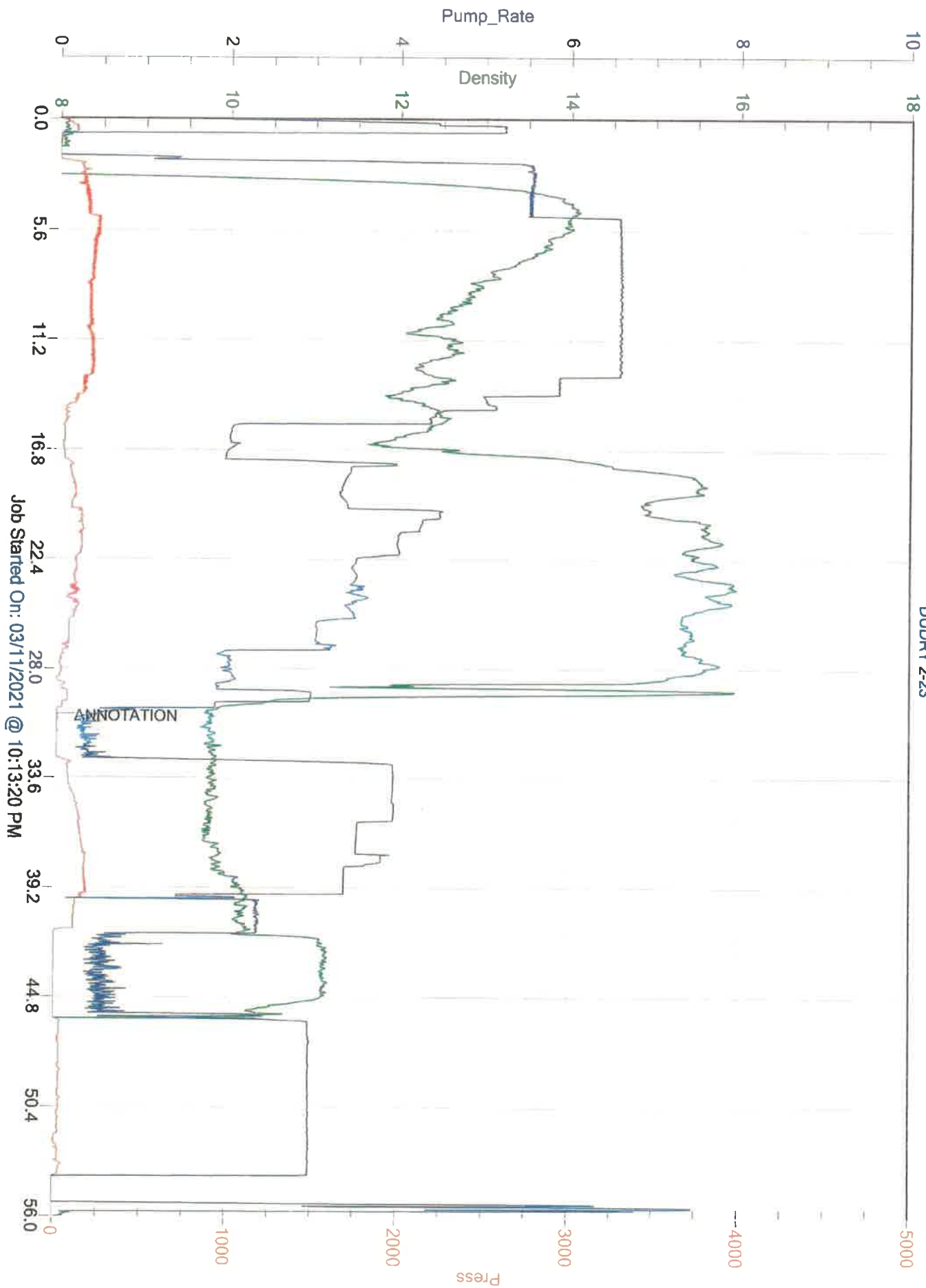
Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	H- CON	Blend:	CLASS A CEMENT
Hole Depth:	420 ft	Weight:	12.4 ppg	Weight:	15.6 ppg
Casing Size:	8 5/8 In 24 #	Water / Sx:	12.7 gal / sx	Water / Sx:	5.2 gal / sx
Casing Depth:	420 ft	Yield:	2.23 ft³ / sx	Yield:	1.20 ft³ / sx
Tubing / Liner:	In	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
PLUG Depth:	400 ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	25.5 bbls	Total Slurry:	70.0 bbls	Total Slurry:	37.4 bbls
		Total Sacks:	175 sx	Total Sacks:	175 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
8:30PM			-	-	ON LOCATION - SPOT EQUIPMENT
9:30PM				-	RUN 11 JTS 8 5/8" CASING
11:00PM				-	CASING ON BOTTOM
11:15PM				-	HOOK UP TO CASING - BREAK CIRCULATION WITH RIG PUMP AND MUD
11:25PM	8.0	300.0	10.0	10.0	H2o AHEAD
11:27PM	6.0	200.0	70.0	80.0	MIX 175 SKS H-CON @ 12.4 PPG
11:38PM	6.0	150.0	37.4	117.4	MIX 175 SKS CLASS A CEMENT
11:44PM				117.4	DROP WOODEN PLUG
11:53PM	5.0	200.0	-	117.4	START DISPLACEMENT
11:58PM	4.0	250.0	20.0	137.4	SLOW RATE
12:00AM	3.0	300.0	25.5	162.9	PLUG @ DESIRED DEPTH
					CIRCULATION THRU JOB
					CIRCULATED 15 BBL TO PIT (35 SKS)
12:20AM					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementor:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	McLAMORE	176-521	5.0 bpm	233 psi	163 bbls
Bulk #1:	MARTINEZ	181-532			
Bulk #2:					

EDISON OPERATING

DUDRY 2-23





HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

EDISON OPERATING CO LLC
8100 E 22ND ST N
BUILDING 1900
WICHITA, KS 67226

Invoice Date: 3/19/2021
Invoice #: 0351987
Lease Name: Dudrey
Well #: 2-23
County: Stafford, Ks
Job Number: WP1231
District: Pratt

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	240.000	11.050	2,652.00
Light Eq Mileage	20.000	1.700	34.00
Heavy Eq Mileage	20.000	3.400	68.00
Ton Mileage	207.000	1.275	263.93
Cement Pump Service	1.000	935.000	935.00

Net Invoice	3,952.93
Sales Tax:	195.03
Total	4,147.96

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	EDISON OPERATING	Lease & Well #	DUDREY 2-23	Date	3/19/2021
Service District	PRATT,KS	County & State	STAFFORD,KS	Legals S/TR	23-25S-13W
Job Type	PTA	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
75	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176-521	McLAMORE	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
181-532	GILLEY	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP055	H-Plug	sack	240.00	\$2,652.00
M015	Light Equipment Mileage	mi	20.00	\$34.00
M010	Heavy Equipment Mileage	mi	20.00	\$68.00
M020	Ton Mileage	tm	207.00	\$263.93
C011	Cement Pump Service	ea	1.00	\$935.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Total Taxable		\$ -	Tax Rate:		Net:		\$3,952.93	
Based on this job, how likely is it you would recommend HSI to a colleague?								Sale Tax:		\$ -
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 Extremely Likely	<small>State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.</small>								Total: \$ 3,952.93	
					HSI Representative:					

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

x *Don Robert* _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: EDISON OPERATING COMPANY LLC	Well: DUDREY 2-23	Ticket: WP 1231
City, State:	County: STAFFORD,KS	Date: 3/19/2021
Field Rep: RICK POPP	S-T-R: 23-25S-13W	Service: PTA

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	ft
Casing Size:	4 1/2 DP 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:	1.43 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	240 sx

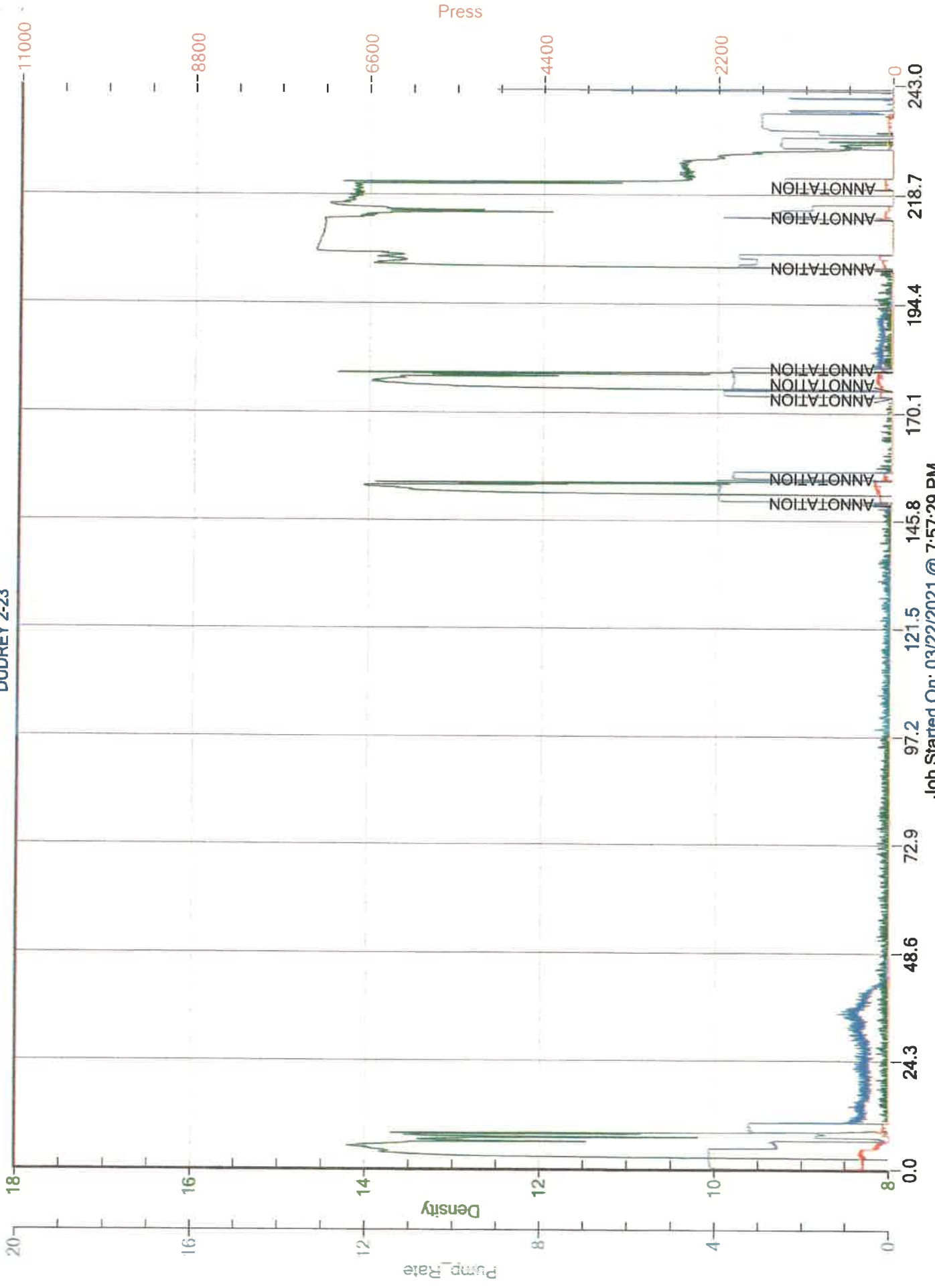
Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:50PM			-	-	ON LOCATION- SPOT EQUIPMENT
9:00PM			-	-	*** 1st PLUG @ 4230' WITH 50 SKS H - PLUG CEMENT
9:07PM	5.0	450.0	10.0	10.0	H2o AHEAD
9:09PM	5.0	450.0	12.7	22.7	MIX 50 SKS CEMENT @ 13.8 PPG
9:10PM	5.0	450.0	5.0	27.7	H2o BEHIND CEMENT
9:20PM	6.0	450.0	50.0	77.7	MUD DISPLACEMENT
11:30PM				77.7	*** 2nd PLUG @ 800' WITH 50 SKS H - PLUG CEMENT
11:35PM	5.0	200.0	5.0	82.7	H2o AHEAD
11:38PM	5.0	200.0	12.7	95.4	MIX 50 SKS CEMENT @ 13.8 PPG
11:40PM	5.0	100.0	8.0	103.4	H2o BEHIND CEMENT
11:53PM				103.4	*** 3rd PLUG @ 450' WITH 50 SKS H- PLUG CEMENT
11:56PM	5.0	100.0	5.0		H2o AHEAD
11:57PM	5.0	100.0	12.7		MIX 50 SKS CEMENT @ 13.8 PPG
12:00AM	5.0	75.0	3.0		H2o BEHIND CEMENT
12:15AM					*** 4th PLUG @ 60' WITH 40 SKS H - PLUG CEMENT
12:20AM	4.0	-	10.0		MIX 40 SKS @ 13.8 PPG
12:22AM					CMENT TO SURFACE
12:30AM	3.0	-	7.0		***PLUG RATHOLE WITH 30 SKS H-PLUG CEMENT
12:45AM	3.0	-	5.0		***PLUG MOUSEHOLE WITH 20 SKS H- PLUG CEMENT
					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Conductor:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	McLAMORE	178-521	4.7 bpm	198 psi	146 bbls
Bulk #1:	GILLEY	181-532			
Bulk #2:					

EDISON OPERATING

DUDREY 2-23



Job Started On: 03/22/2021 @ 7:57:29 PM



EDISON OPERATING COMPAN

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

Well Name: Dudrey #2-23
Well Id:
Location: Section 23 - 25S - 13W Stafford Co., Kansas
License Number: API # 15-185-24078-0000 Region: LEISS
Spud Date: 3/10/21 Drilling Completed: 3/19/21
Surface Coordinates: 2225' FNL & 1110' FWL
(3-D Location)
Bottom Hole
Coordinates:
Ground Elevation (ft): 1920' K.B. Elevation (ft): 1933'
Logged Interval (ft): 3000 To: 4340 Total Depth (ft): 4352
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

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

OPERATOR

Company: EDISON OPERATING COMPANY
Address: 8100 E 22nd ST N BLDG 1900
WICHITA, KS 67226

GEOLOGIST

Name: ADAM T. KENNEDY
Company: EDISON OPERATING COMPANY
Address: 8100 E 22nd ST N BLDG 1900
WICHITA, KS 67226

REMARKS

After review of the geological report, DST results, and open hole logs, it was agreed upon by all parties that the Dudrey #2-23 to be incapable of producing commercial quantities of oil and gas. The well was plugged and abandoned on 3/20/21.

Respectfully submitted,

Adam T. Kennedy

ROCK TYPES

LITHOLOGY

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

FOSSIL

- Oomoldic
- Fuss
- Algae

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MINERAL

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

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STRINGER

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



Ssstrg

TEXTURE

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

OIL SHOW

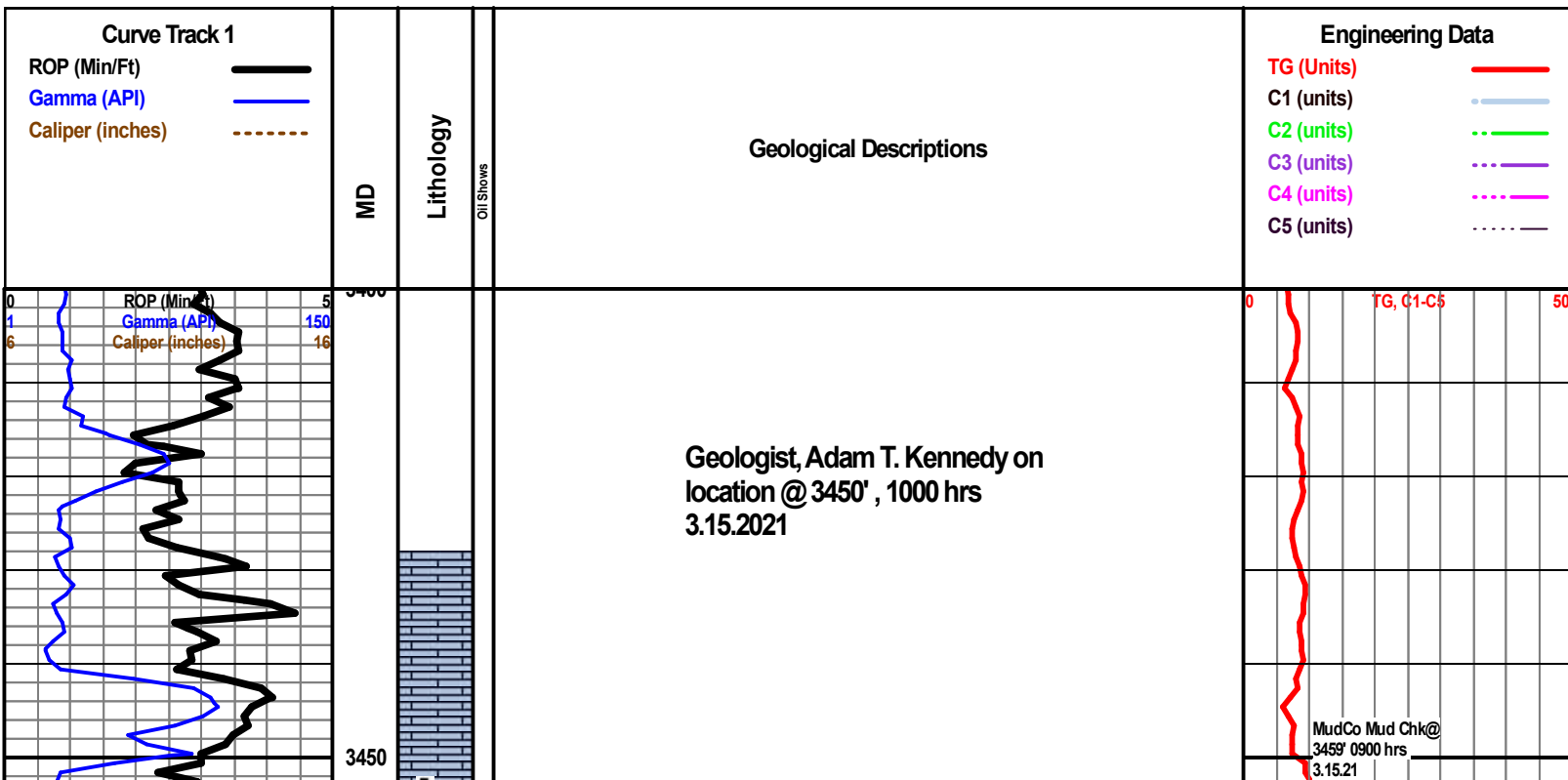
- Gas show
- Even
- Spotted
- Ques
- Dead

INTERVAL

- Dst
- Core
- Dst
- Straddle test tail pipe

EVENT

- Rft
- Sidewall
- Dst
- Open hole
- Perforations



vis: 46 wt: 9.2
pH: 10.0 wl: 9.6
Chlr: 7400
LCM: 1#

Limestone: cream tan, microxn, fossiliferous, dense chalky matrix, scattered poor to fair interxn porosity, trace gas bubbles under lamp, no other shows noted.

HEEBNER 3472' (-1539)

Shale: black grey, dense waxy fissile, carbonaceous, pyritic.

TORONTO

Limestone: cream tan white, micro to finexn, fossiliferous, dense chalky matrix, poor visible porosity, no shows noted.

DOUGLAS SHALE 3515' (-1582)

Interbedded shales: gray green brick red, waxy dense, abundant grey siltstones, sandy, micaceous, calcareous matrix, no shows noted.

Siltstone: clear to gray, fine grained, dense calcareous matrix, chalky, with abundant shales as above, no shows noted.

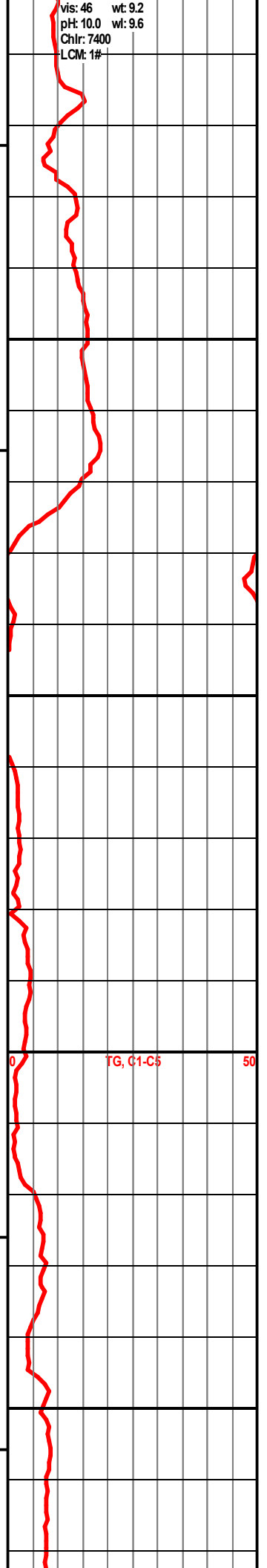
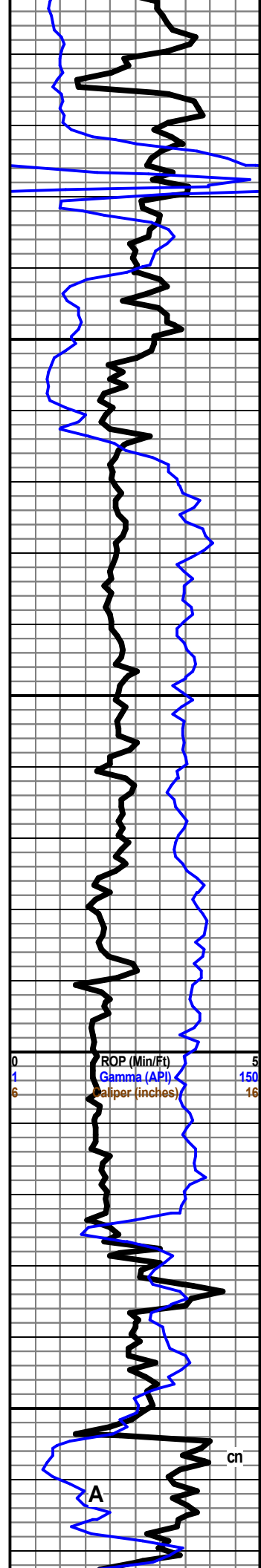
Siltstones as above, with increasing shale.

BROWN LIME 3624' (-1691)

Limestone: cream tan white, micro to finexn, fossiliferous, dense chalky matrix, very poor visible porosity, no shows noted, with: abundant dark grey shales, waxy fissile, micaceous.

LANSING KANSAS CITY 3654' (-1721)

Limestone: cream tan brown, microxn, trace fossils, dense calcareous matrix, very poor visible porosity, no shows noted, with abundant dark grey shales as above.

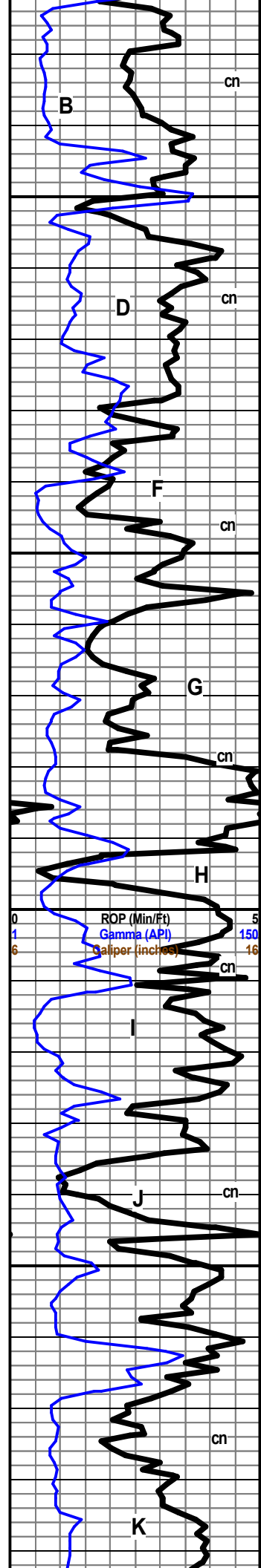


ROP (Min/Ft) 5
Gamma (API) 150
Caliper (inches) 16

0 TG, C1-C5 50

cn

A



Limestone: white cream tan, micro to finexln, fossiliferous oolitic bioclastic, dense calcareous matrix, scattered poor to fair rexln, good interxln oomoldic porosity, no shows or odor noted.

Limestone: cream tan light brown, micro to finexln, fossiliferous oolitic, bioclastic, scattered good rexln with good interxln porosity, trace dark black saturated porosity, bleeds oil and gas under lamp, faint odor, faint fl.

Limestone: cream light brown, microxln, fossiliferous oolitic, dense xln matrix, scattered good interfossiliferous porosity, no show associated, no odor.

Limestone: cream light brown, micro to finexln, fossiliferous oolitic, dense fossiliferous matrix grading to lithographic, scattered poor interxln porosity, scattered rexln, no shows or odor noted.

Limestone: white cream tan, micro to finexln, fossiliferous, dense crystalline matrix, scattered good interxln trace vuggy porosity, no assoc. shows, no odor or fl.

Limestone: cream tan brown, microxln, trace fossils, dense calcareous chalky matrix, very poor visible porosity, no shows or odor noted.

Limestone: cream tan light brown, microxln, trace fossils, dense chalky matrix, scattered poor interxln porosity, abundant chalk, no shows or odor noted.

MUNCIE CREEK 3784' (-1851)

cfs Limestone: white cream tan, micro to finexln, fossiliferous oolitic, dense oomoldic matrix, chalky, scattered poor to good oomoldic porosity, no assoc shows, no odor or fl.

no gas kick

Limestone: cream tan, micro to finexln, fossiliferous oolitic, scattered poor to fair oomoldic porosity, no shows or odor noted.

Limestone: white cream tan, micro to finexln, fossiliferous, scattered fair to good interxln trace vuggy porosity, no shows or odor noted.

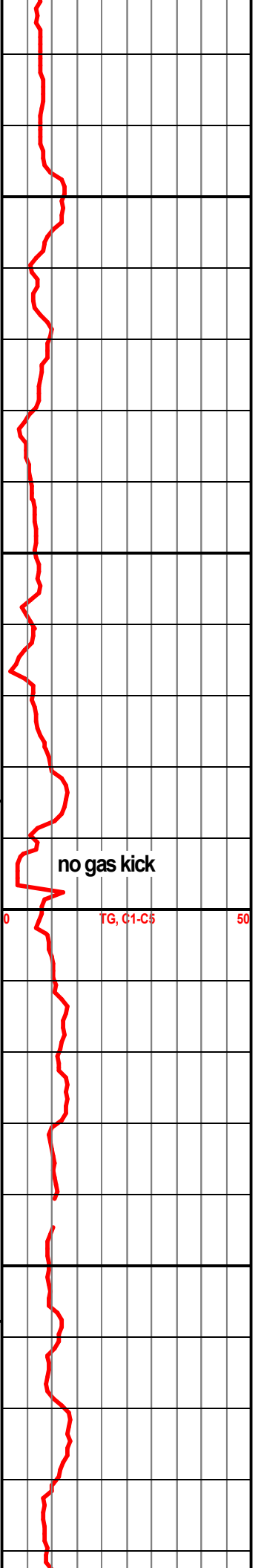
Limestone: white cream, micro to finexln, oolitic, chalky xln matrix, scattered poor to good interxln oomoldic porosity, no shows or odor noted.

STARK SHALE 3857' (-1924)

Shale: gray dark gray black, dense fissile, micaceous pyritic.

Limestone: cream tan light brown, micro to finexln, fossiliferous trace oolitic, dense xln matrix, scattered poor pinpoint interxln porosity, no shows noted.

Limestone: cream tan light brown, micro to finexln, trace fossils oolites, dense xln matrix, very poor visible porosity, trace dead black wormy stain with small live oil show, faint odor, no other shows noted.



HUSHPUCKNEY 3896' (-1963)

3900



Limestone: white cream tan gray, micro to finexln, trace fossils, dense xln chalky matrix, scattered poor edge interxln porosity with dark brown oil stain, slight show of free oil, faint odor, no other shows noted.

Limestone: cream tan light brown, micrxln, barren, lithographic dense xln matrix, very poor visible porosity, no shows noted.

Limestones as above with increasing interbedded shales: gray green black, pyritic.

MudCo Mud Chk@
3933' 0900 hrs
3.1621
vis: 50 wt: 9.45
pH: 9.0 wt: 10.4
Chlr: 8400
LCM: 1#

MARMATON 3952' (-2019)

3950



Limestone: cream tan, micro to finexln, fossiliferous trace oolites, dense chalky xln matrix, scattered poor to good interxln porosity, no shows or odor noted.

Limestone: cream tan brown light purple, micoxln, oolitic, dense hard xln matrix, scattered poor interxln vuggy porosity, trace dark brown stain, no odor or fl.

Chert: varicolored, opaque to clear, trace fossils, heavily altered in part, scattered tripolitic texture, scattered good interxln edge porosity, no shows or fl noted.

Chert: varicolored, opaque to clear, trace fossils, mottled, heavily altered, dense hard matrix, very poor visible porosity, no shows noted.

Shales: gray brick red, waxy fissile dense, abundant chalk, with limestone: cream tan, micrxln, barren, dense xln matrix, samples wash red.

Chert: white off white purple, opaque, fresh sharp, abundant chalk and red shales, samples wash red and grey, no shows noted.

VIOLA 4072' (-2150)

4050



Chert: varicolored, white purple black, opaque, heavily altered, mottled, dense grainy texture, abundant red shales and chalk, no shows noted.

Chert: white bone white light yellow, opaque sharp fresh, abundant mottled tripolitic facies, scattered poor to fair dark black staining on edges, scattered dolomite: cream tan micro to finexln, trace fossils, good interxln vuggy porosity, fair show free oil under lamp, faint odor, pale yellow fl.

4100

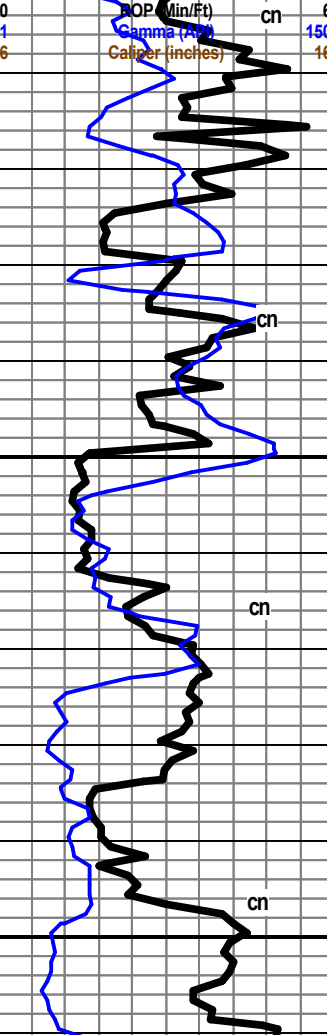
Chert: white bone white light yellow light orange, sharp fresh opaque, decrease in tripolitic facies, decrease in dolomite as above, no shows or odor noted.

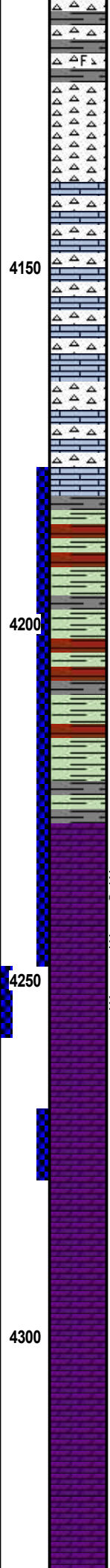
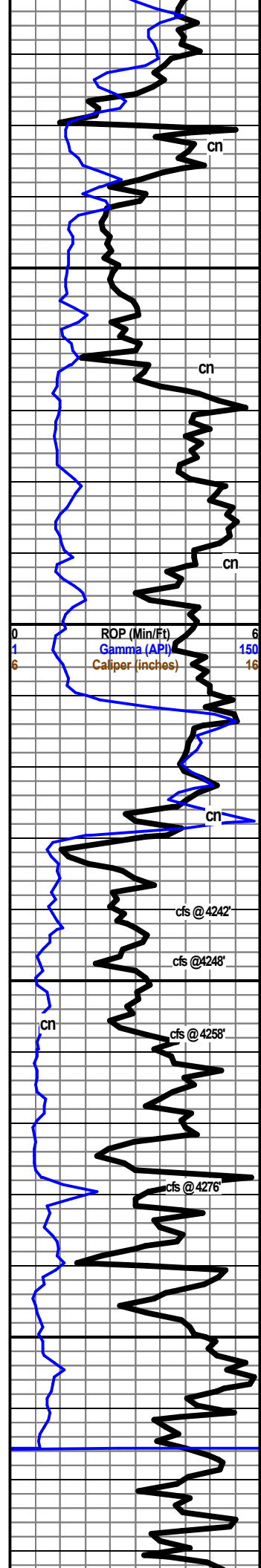
0 TG, C1-C5 50

30u gas kick

20u gas kick

Scale Change
ROP (Min/Ft) 6
Gamma (API) 150
Caliper (inches) 16





Chert: white bone white, purple, yellow, sharp fresh opaque, trace fossils, scattered tripolitic texture, scattered dolomite: white cream, micro to finexln, trace fossils, poor to good rhombic development, scattered poor to fair free oil, no other shows noted.

Chert: white bone white, fresh sharp opaque, barren, dense hard sub chalky matrix, very poor visible porosity, with limestone: cream tan, microxln, barren, dense hard xln matrix, poor visible porosity, no shows noted.

Chert: bone white purple, sharp fresh opaque, barren, dense hard sub-chalky matrix, very poor visible porosity, with limestones as above, no shows noted.

SIMPSON SHALE 4181' (-2248)

Shale: gray green rust red, waxy fissile streaks gray, with abundant bone white chert as above, no shows noted.

Shale: gray green dark green, waxy blocky fissile, with scattered sandstone: quartz, clear, fine grained, sub rounded to rounded, well sorted, friable matrix, no shows noted.

ARBUCKLE 4228' (-2295)

⊗ Dolomite: white cream tan, micro to finexln, fossiliferous oolitic, poor to fair rhombic development, scattered sucrosic texture, poor to good interxln porosity, trace oomoldic, scattered poor to fair show free oil and gas, increase under lamp, good even bright yellow fl, strong odor.

⊗ 4248' Dolomite: white cream tan, micro to finexln trace coarse, fossiliferous, fair to good rhombic development, good interxln trace edge vuggy porosity, good to excellent show free oil in gas in most samples, increase under lamp, strong odor, even bright yellow fl.

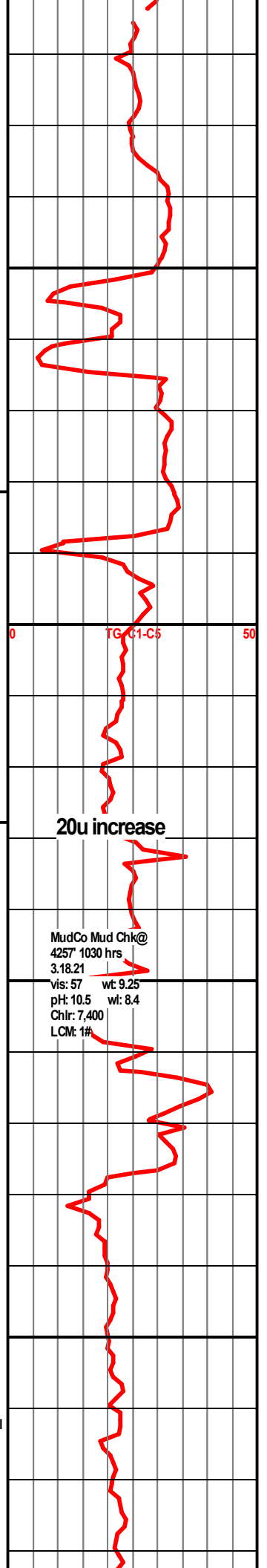
⊗ 4258' Dolomite: white cream tan, fine to coarse xln, trace fossils, fair to excellent rhombic development, good to vgood interxln porosity, scattered vuggy porosity, good show free oil under lamp, increases over time, strong odor, even bright yellow green fl.

Dolomite: white cream, microxln, barren, dense xln matrix, abundant chalk, very poor visible porosity, no shows or odor noted, abundant shales, gray blue purple, waxy blocky,

4276' Dolomite: white cream tan, fine to microxln, mostly barren, dense xln matrix, scattered poor to fair interxln porosity, scattered poor to fair show free oil under lamp, fair odor, even yellow fl.

Dolomite: white cream, microxln, barren, trace oolites, poor rhombic development, dense xln matrix, poor visible porosity, no shows noted, even green fl.

Dolomite as above with increasing shales: blue green gray trace yellow, dense waxy blocky. Very poor overall porosity, no shows noted,

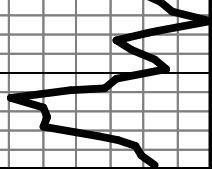


0 TG C1-C5 50

20u increase

MudCo Mud Chk@
4257' 1030 hrs
3.18.21
vis: 57 wt: 9.25
pH: 10.5 wl: 8.4
Chr: 7,400
LCM: 1#

7



4350

RTD 4352' (-2417)

4400

0	TG, C1-C5	50
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0	ROP (Min/Ft)	6
1	Gamma (API)	150
6	Caliper (inches)	16

4450

4500