

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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Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	STOEPPELWERTH 1-21
Doc ID	1509620

All Electric Logs Run

DUCP
MICRO
DUAL INDUCTION
SONIC





## DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company**

8100 E.22nd St.N Building1900  
Wichita Kansas 67226

ATTN: Adam Kennedy

### **Stoeppele Worth #1-21**

### **21-16s-10w Ellsworth**

Start Date: 2020.02.16 @ 00:02:00

End Date: 2020.02.16 @ 04:39:00

Job Ticket #: 4                      DST #: 1

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

Printed: 2020.02.16 @ 06:52:11



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

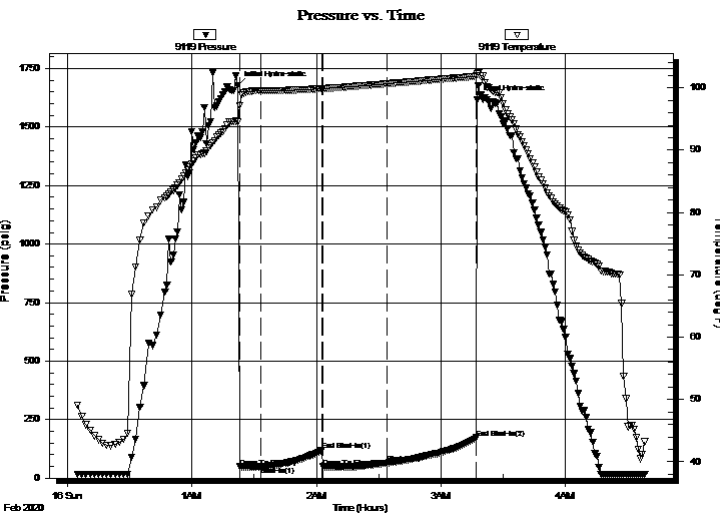
**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 4 **DST#: 1**  
 Test Start: 2020.02.16 @ 00:02:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:24:00  
 Time Test Ended: 04:39:00  
 Interval: **3310.00 ft (KB) To 3341.00 ft (KB) (TVD)**  
 Total Depth: 3341.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1882.00 ft (KB)  
 1873.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 172.14 psig @ 3337.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.16 Last Calib.: 2020.02.16  
 Start Time: 00:05:00 End Time: 04:38:00 Time On Btm: 2020.02.16 @ 01:22:00  
 Time Off Btm: 2020.02.16 @ 03:17:30

TEST COMMENT: 1st Opening 10 Minutes w eak blow for 9 minutes and died  
 1st Shut-in 30 Minutes  
 2nd Opening 10 Minutes no blow  
 2nd Shut-In 60 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.12	94.51	Initial Hydro-static
1	47.85	97.14	Open To Flow (1)
11	48.66	99.52	Shut-In(1)
41	118.58	99.87	End Shut-In(1)
41	48.09	99.86	Open To Flow (2)
72	64.39	100.64	Shut-In(2)
115	172.14	101.85	End Shut-In(2)
116	1618.63	102.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	slightly oil specked mud	0.07
0.00	good show of clean oil betw een the top	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 4 **DST#: 1**  
 Test Start: 2020.02.16 @ 00:02:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:24:00  
 Tester: Gene Budig  
 Time Test Ended: 04:39:00  
 Unit No: 1  
 Interval: **3310.00 ft (KB) To 3341.00 ft (KB) (TVD)**  
 Reference Elevations: 1882.00 ft (KB)  
 Total Depth: 3341.00 ft (KB) (TVD)  
 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 9.00 ft

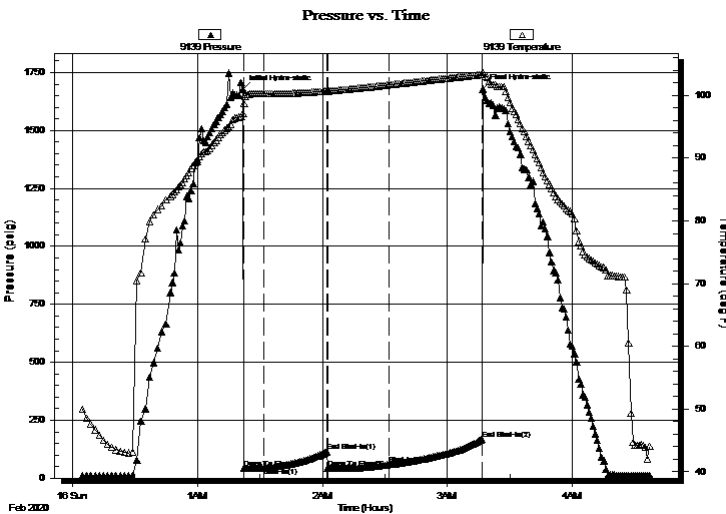
## Serial #: 9139

## Outside

Press@RunDepth: 168.22 psig @ 3338.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.16 Last Calib.: 1899.12.30  
 Start Time: 00:05:00 End Time: 04:37:30 Time On Btm: 2020.02.16 @ 01:22:00  
 Time Off Btm: 2020.02.16 @ 03:17:00

TEST COMMENT: 1st Opening 10 Minutes w eak blow for 9 minutes and died  
 1st Shut-in 30 Minutes  
 2nd Opening 10 Minutes no blow  
 2nd Shut-In 60 Minutes

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.66	97.09	Initial Hydro-static
1	44.16	98.65	Open To Flow (1)
10	44.96	100.32	Shut-In(1)
40	114.17	100.69	End Shut-In(1)
41	44.46	100.68	Open To Flow (2)
70	58.78	101.68	Shut-In(2)
115	168.22	103.32	End Shut-In(2)
115	1679.12	103.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	slightly oil specked mud	0.07
0.00	good show of clean oil betw een the top	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 4 **DST#: 1**  
 Test Start: 2020.02.16 @ 00:02:00

## Tool Information

Drill Pipe:	Length: 3289.00 ft	Diameter: 3.80 inches	Volume: 46.14 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:	49000.00 lb
			<u>Total Volume: 46.14 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3310.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	59.00 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			3287.00	
Hydraulic tool	5.00			3292.00	
Jars	6.00			3298.00	
Safety Joint	2.00		Fluid	3300.00	
Top Packer	5.00			3305.00	
Packer	5.00			3310.00	28.00 Bottom Of Top Packer
Anchor	26.00			3336.00	
Recorder	1.00	9119	Inside	3337.00	
Recorder	1.00	9139	Outside	3338.00	
Bullnose	3.00			3341.00	31.00 Anchor Tool
<b>Total Tool Length:</b>	<b>59.00</b>				





# DRILL STEM TEST REPORT

## FLUID SUMMARY

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 4 **DST#: 1**  
 Test Start: 2020.02.16 @ 00:02:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

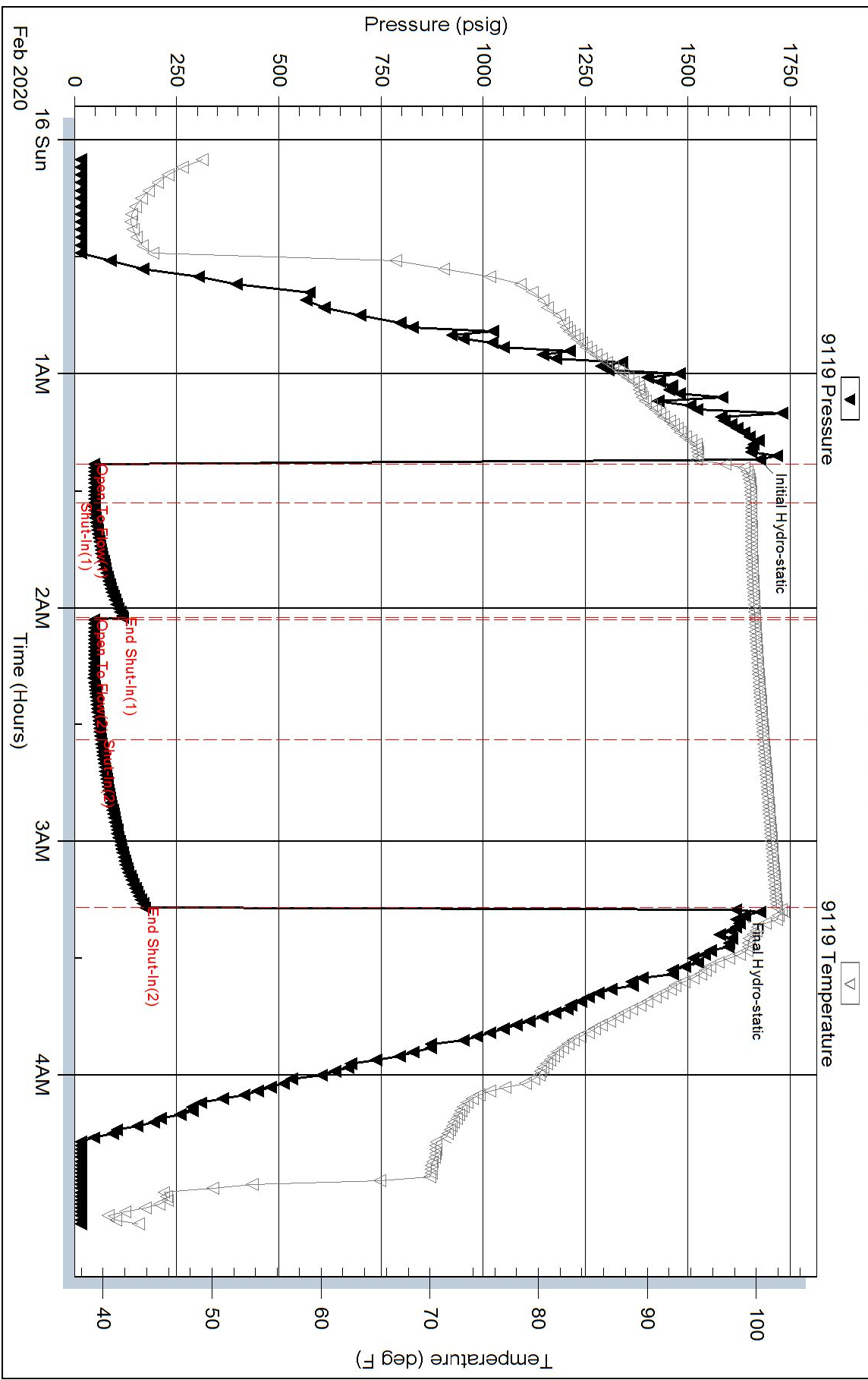
### Recovery Information

Recovery Table

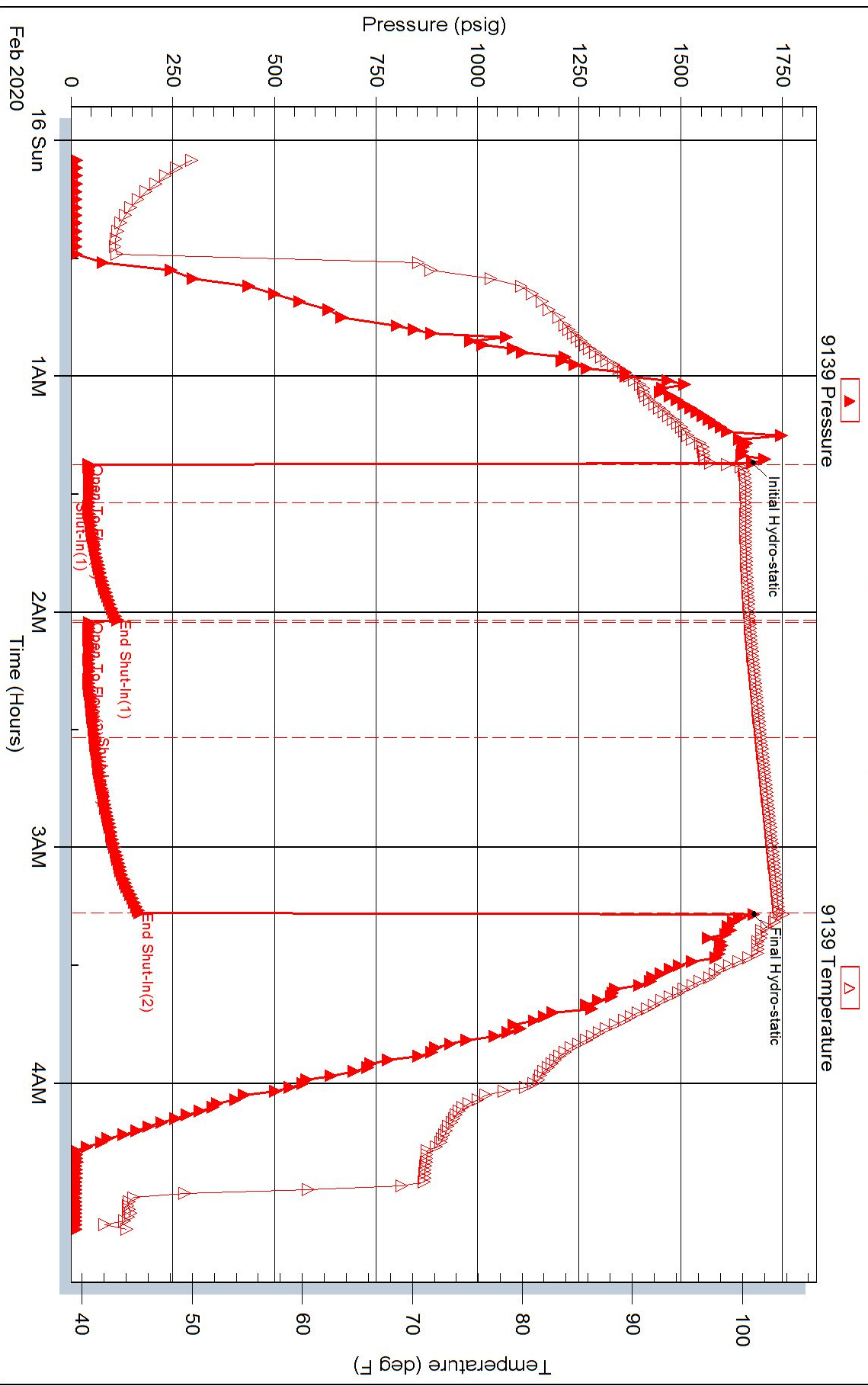
Length ft	Description	Volume bbl
5.00	slightly oil specked mud	0.070
0.00	good show of clean oil between the tools	0.000

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





## DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company**

8100 E.22nd St.N Building1900  
Wichita Kansas 67226

ATTN: Adam Kennedy

### **Stoeppe1 Worth #1-21**

### **21-16s-10w Ellsworth**

Start Date: 2020.02.16 @ 11:17:00

End Date: 2020.02.16 @ 15:07:00

Job Ticket #: 01396                      DST #: 2

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

Printed: 2020.02.16 @ 15:23:41



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

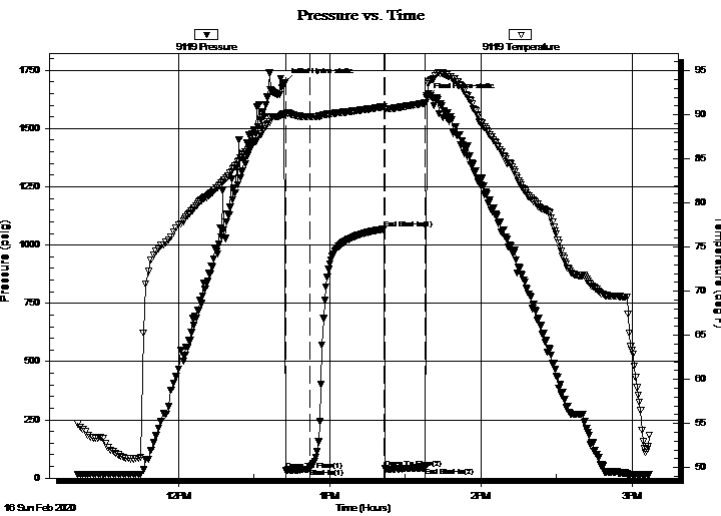
**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01396 **DST#: 2**  
 Test Start: 2020.02.16 @ 11:17:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 12:42:00 Tester: Gene Budig  
 Time Test Ended: 15:07:00 Unit No: 1  
 Interval: **3341.00 ft (KB) To 3348.00 ft (KB) (TVD)** Reference Elevations: 1882.00 ft (KB)  
 Total Depth: 3348.00 ft (KB) (TVD) 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 45.45 psig @ 3344.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.16 Last Calib.: 2020.02.16  
 Start Time: 11:17:00 End Time: 15:06:59 Time On Btm: 2020.02.16 @ 12:42:00  
 Time Off Btm: 2020.02.16 @ 13:38:30

**TEST COMMENT:** 1st Opening 10 Minutes weak blow built to 1 1/2 inch into the water  
 1st Shut-In 30 Minutes  
 2nd Opening 156 minutes weak blow built to 2 1/2 inches into the water  
 2nd Shut-In None taken



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.54	89.90	Initial Hydro-static
1	34.52	90.09	Open To Flow (1)
10	41.99	89.77	Shut-In(1)
40	1068.30	90.92	End Shut-In(1)
40	42.38	90.63	Open To Flow (2)
56	45.45	91.36	End Shut-In(2)
57	1633.63	92.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	Oil cut mud 40% Mud 60% Oil	0.49

## Gas Rates

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



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

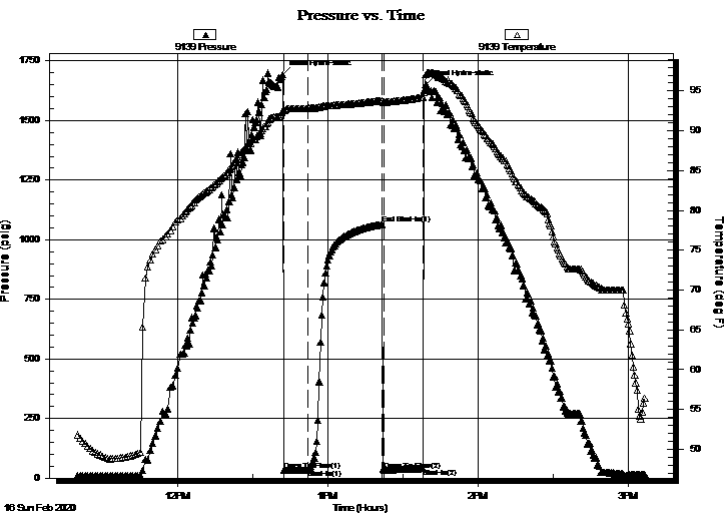
**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01396 **DST#: 2**  
 Test Start: 2020.02.16 @ 11:17:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 12:42:00 Tester: Gene Budig  
 Time Test Ended: 15:07:00 Unit No: 1  
 Interval: **3341.00 ft (KB) To 3348.00 ft (KB) (TVD)** Reference Elevations: 1882.00 ft (KB)  
 Total Depth: 3348.00 ft (KB) (TVD) 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 9139 Outside**  
 Press@RunDepth: 1064.45 psig @ 3345.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.16 Last Calib.: 2020.02.16  
 Start Time: 11:17:00 End Time: 15:06:30 Time On Btm: 2020.02.16 @ 12:42:00  
 Time Off Btm: 2020.02.16 @ 13:39:00

**TEST COMMENT:** 1st Opening 10 Minutes w eak blow built to 1 1/2 inch into the w ater  
 1st Shut-In 30 Minutes  
 2nd Opening 156 minutes w eak blow built to 2 1/2 inches into the w ater  
 2nd Shut-In None taken



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.69	92.58	Initial Hydro-static
1	31.49	92.59	Open To Flow (1)
10	38.41	92.83	Shut-In(1)
40	1064.45	93.83	End Shut-In(1)
41	33.59	93.62	Open To Flow (2)
56	41.91	94.24	Shut-In(2)
57	1649.68	97.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	Oil cut mud 40% Mud 60% Oil	0.49

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01396 **DST#: 2**  
 Test Start: 2020.02.16 @ 11:17:00

## Tool Information

Drill Pipe:	Length: 3325.00 ft	Diameter: 3.80 inches	Volume: 46.64 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: 54000.00 lb
			<u>Total Volume: 46.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3341.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	1	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			3323.00	
Hydraulic tool	5.00			3328.00	
Jars	6.00			3334.00	
Safety Joint	2.00		Fluid	3336.00	
Packer	5.00			3341.00	23.00 Bottom Of Top Packer
Anchor	2.00			3343.00	
Recorder	1.00	9119	Inside	3344.00	
Recorder	1.00	9139	Outside	3345.00	
Bullnose	3.00			3348.00	7.00 Anchor Tool
<b>Total Tool Length:</b>	<b>30.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01396 **DST#: 2**  
 Test Start: 2020.02.16 @ 11:17:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

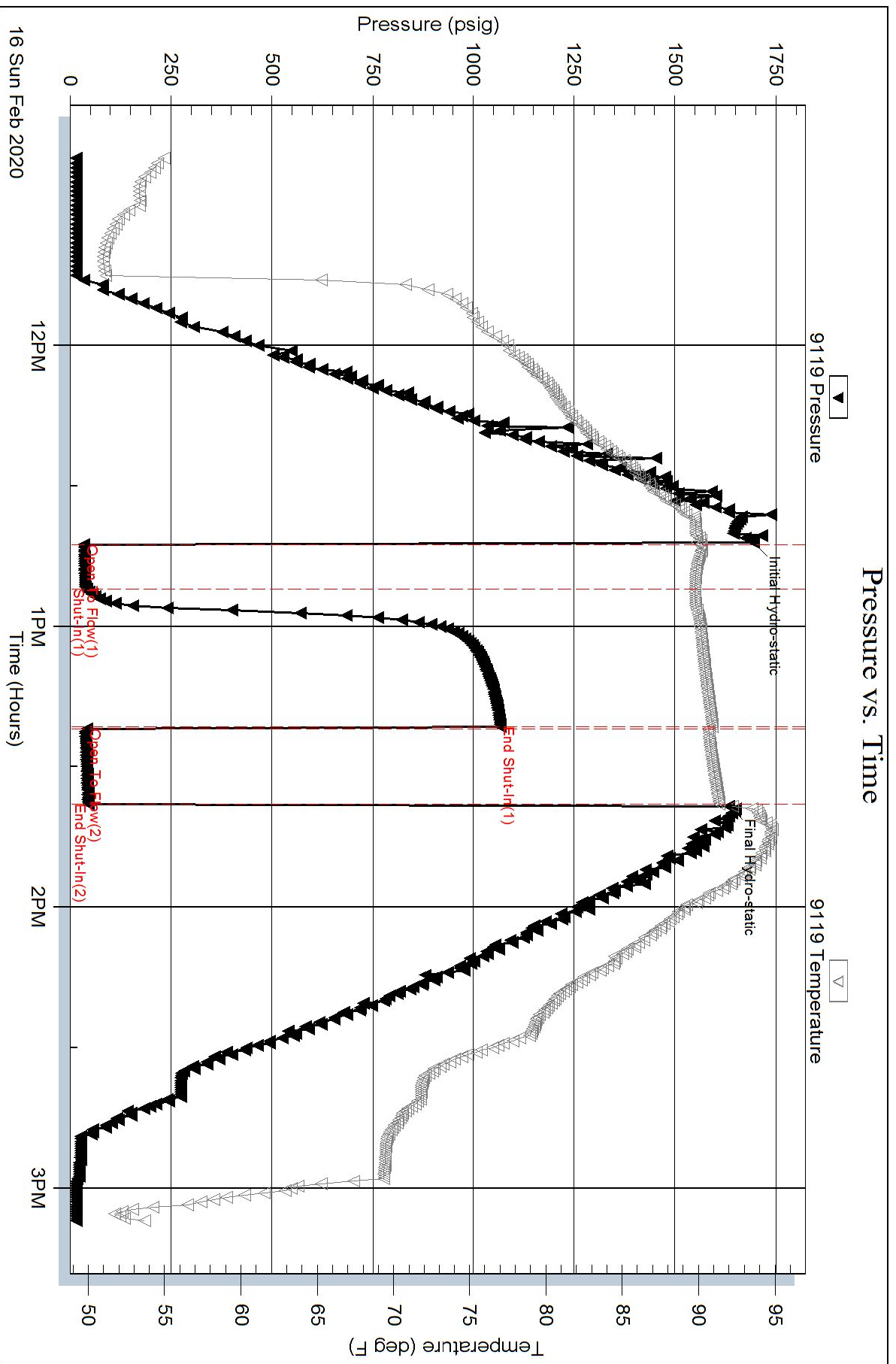
Recovery Table

Length ft	Description	Volume bbl
35.00	Oil cut mud 40% Mud 60% Oil	0.491

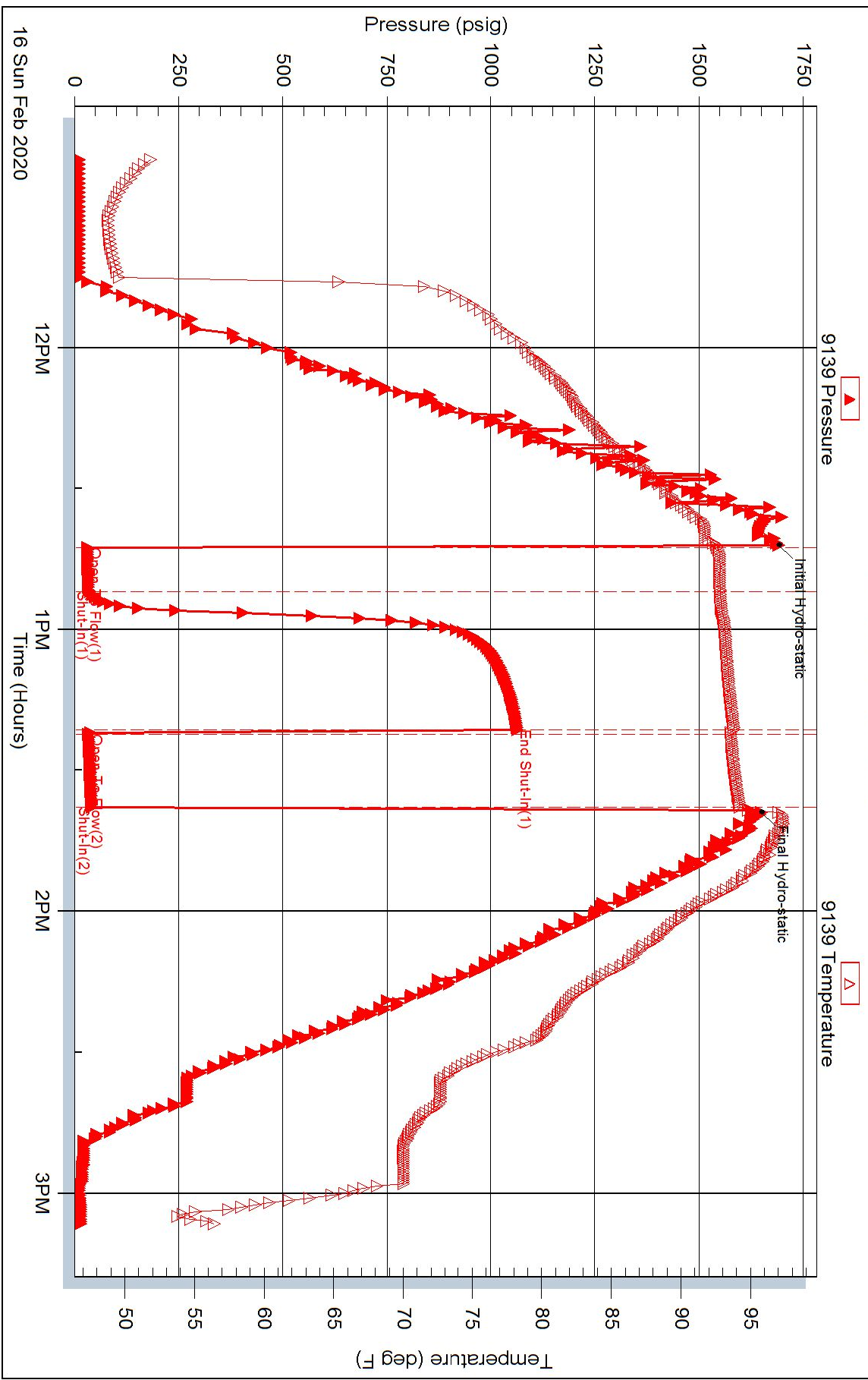
Total Length: 35.00 ft      Total Volume: 0.491 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



# Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company**

8100 E.22nd St.N Building1900  
Wichita Kansas 67226

ATTN: Adam Kennedy

### **Stoeppele Worth #1-21**

### **21-16s-10w Ellsworth**

Start Date: 2020.02.16 @ 08:12:00

End Date: 2020.02.17 @ 02:30:00

Job Ticket #: 01397                      DST #: 3

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

Printed: 2020.02.17 @ 03:05:24



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

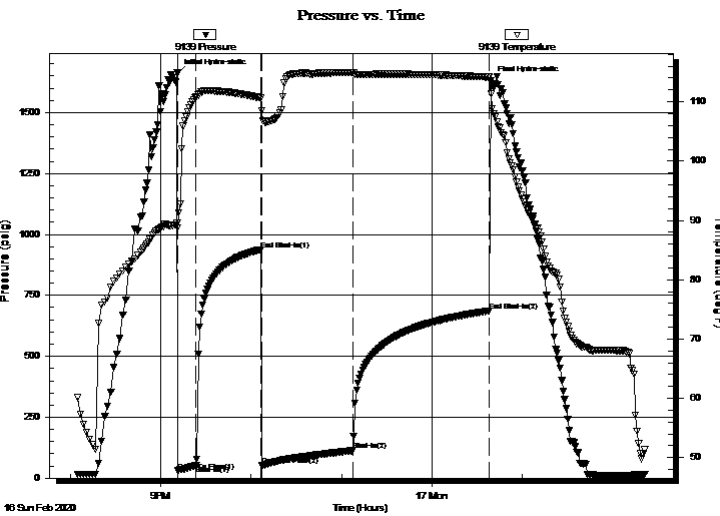
**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01397 **DST#: 3**  
 Test Start: 2020.02.16 @ 08:12:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:21:00  
 Time Test Ended: 02:30:00  
 Interval: **3347.00 ft (KB) To 3354.00 ft (KB) (TVD)**  
 Total Depth: 3354.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1882.00 ft (KB)  
 1873.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 9139 Outside**  
 Press@RunDepth: 686.60 psig @ 3351.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.17 Last Calib.: 2020.02.17  
 Start Time: 20:02:00 End Time: 02:21:30 Time On Btm: 2020.02.16 @ 21:11:00  
 Time Off Btm: 2020.02.17 @ 00:39:00

**TEST COMMENT:** 1st Opening 10 Minutes Weak blow built to 7 1/2 inches into the water  
 1st Shut-In 45 Minutes  
 2nd Opening 60 Minutes weak blow built to 5 1/2 inch decreased to a 2 inch blow  
 2nd Shut-In 90 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.68	89.49	Initial Hydro-static
1	29.72	88.79	Open To Flow (1)
13	51.09	110.86	Shut-In(1)
56	937.93	110.63	End Shut-In(1)
56	52.82	108.45	Open To Flow (2)
117	115.47	114.95	Shut-In(2)
207	686.60	114.17	End Shut-In(2)
208	1631.77	111.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 feet of gas in the pipe	0.00
210.00	Clean gassy Oil 40% Gas 60% Oil	2.95
0.00	Gravity 41 Corrected	0.00
30.00	Heavy Oil cut mud	0.42
0.00	10% Gas 30% Oil 45% frothy mud w out	0.00
0.00	Grind out 10% Mud 5% Water	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01397 **DST#: 3**  
 Test Start: 2020.02.16 @ 08:12:00

## GENERAL INFORMATION:

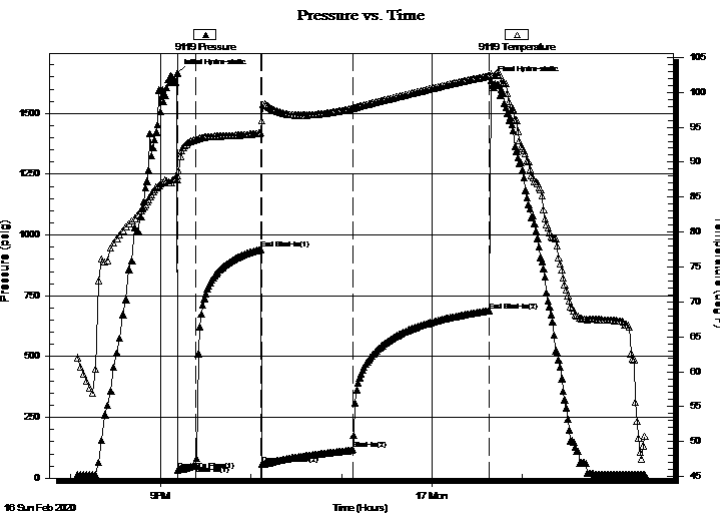
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:21:00  
 Time Test Ended: 02:30:00  
 Interval: **3347.00 ft (KB) To 3354.00 ft (KB) (TVD)**  
 Total Depth: 3354.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1882.00 ft (KB)  
 1873.00 ft (CF)  
 KB to GR/CF: 9.00 ft

## Serial #: 9119

Inside

Press@RunDepth: 689.34 psig @ 3350.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.17 Last Calib.: 2020.02.17  
 Start Time: 20:02:00 End Time: 02:21:30 Time On Btm: 2020.02.16 @ 21:11:00  
 Time Off Btm: 2020.02.17 @ 00:39:00

TEST COMMENT: 1st Opening 10 Minutes Weak blow built to 7 1/2 inches into the water  
 1st Shut-In 45 Minutes  
 2nd Opening 60 Minutes weak blow built to 5 1/2 inch decreased to a 2 inch blow  
 2nd Shut-In 90 Minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.93	88.09	Initial Hydro-static
1	33.29	87.45	Open To Flow (1)
13	52.22	93.22	Shut-In(1)
56	94.10	94.19	End Shut-In(1)
56	57.09	95.91	Open To Flow (2)
117	119.50	97.70	Shut-In(2)
207	689.34	102.37	End Shut-In(2)
208	1634.82	102.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	300 feet of gas in the pipe	0.00
210.00	Clean gassy Oil 40% Gas 60% Oil	2.95
0.00	Gravity 41 Corrected	0.00
30.00	Heavy Oil cut mud	0.42
0.00	10% Gas 30% Oil 45% frothy mud w out	0.00
0.00	Grind out 10% Mud 5% Water	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01397 **DST#: 3**  
 Test Start: 2020.02.16 @ 08:12:00

## Tool Information

Drill Pipe:	Length: 3349.00 ft	Diameter: 3.80 inches	Volume: 46.98 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: 58000.00 lb
			<u>Total Volume: 46.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3347.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	1	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			3329.00	
Hydraulic tool	5.00			3334.00	
Jars	6.00			3340.00	
Safety Joint	2.00		Fluid	3342.00	
Packer	5.00			3347.00	23.00 Bottom Of Top Packer
Anchor	2.00			3349.00	
Recorder	1.00	9119	Inside	3350.00	
Recorder	1.00	9139	Outside	3351.00	
Bullnose	3.00			3354.00	7.00 Anchor Tool
<b>Total Tool Length:</b>	<b>30.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01397 **DST#: 3**  
 Test Start: 2020.02.16 @ 08:12:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 1.00 inches			

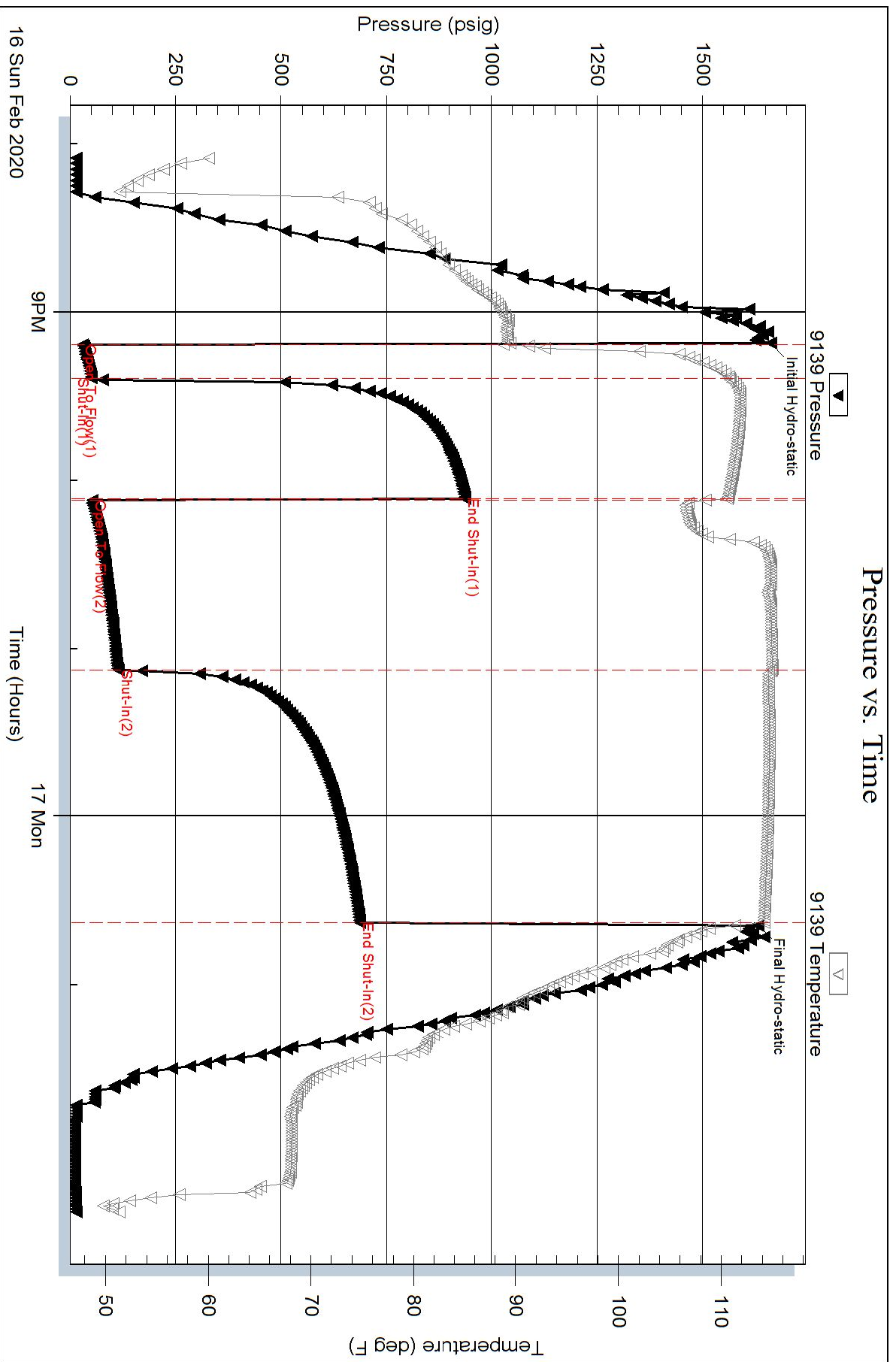
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300 feet of gas in the pipe	0.000
210.00	Clean gassy Oil 40%Gas 60%Oil	2.946
0.00	Gravity 41 Corrected	0.000
30.00	Heavy Oil cut mud	0.421
0.00	10% Gas 30% Oil 45% frothy mud would not	0.000
0.00	Grind out 10% Mud 5%Water	0.000

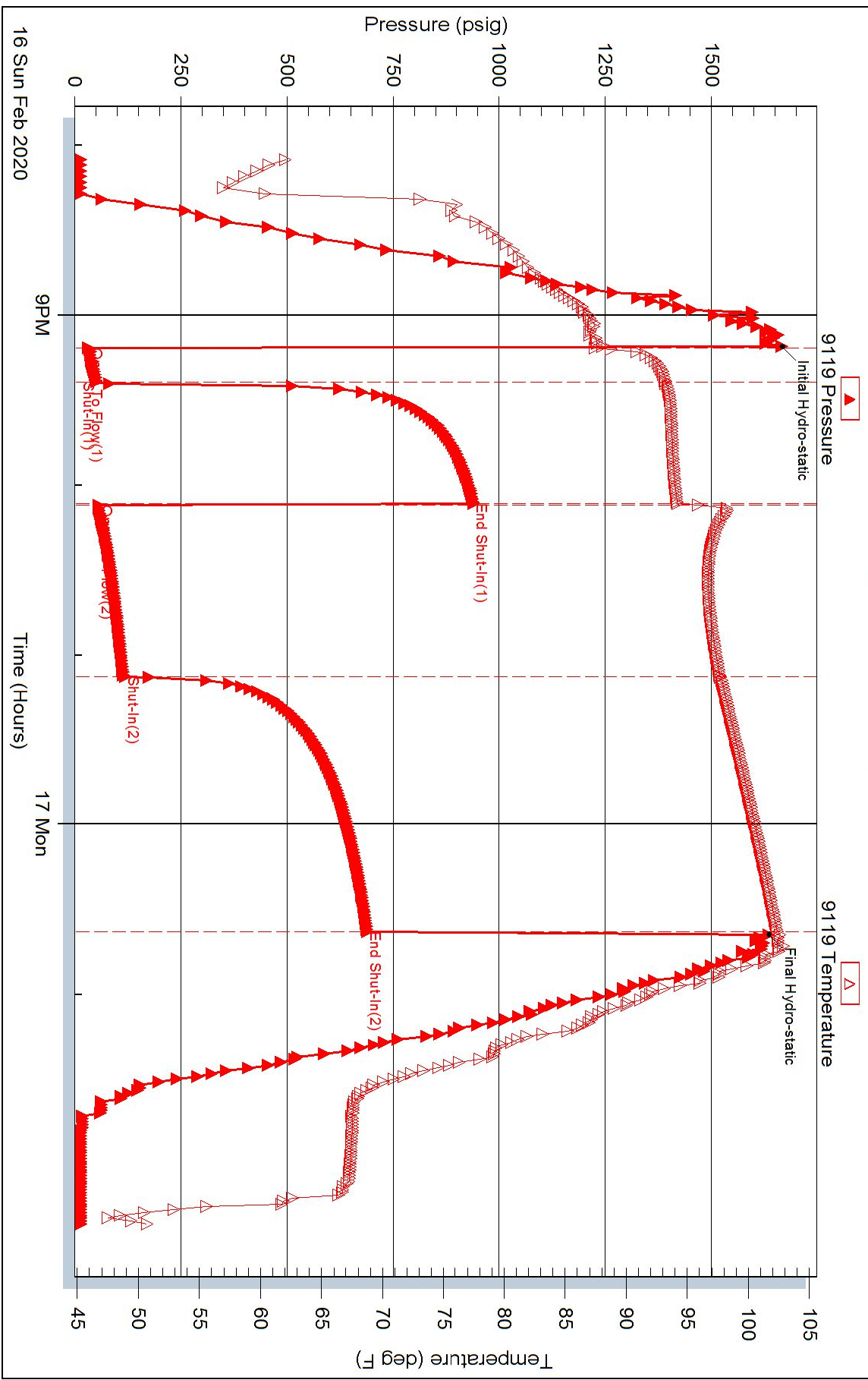
Total Length: 240.00 ft      Total Volume: 3.367 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company**

8100 E.22nd St.N Building1900  
Wichita Kansas 67226

ATTN: Adam Kennedy

### **Stoeppele Worth #1-21**

### **21-16s-10w Ellsworth**

Start Date: 2020.02.17 @ 09:15:00

End Date: 2020.02.17 @ 14:00:00

Job Ticket #: 01398                      DST #: 4

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

Printed: 2020.02.17 @ 16:33:44



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

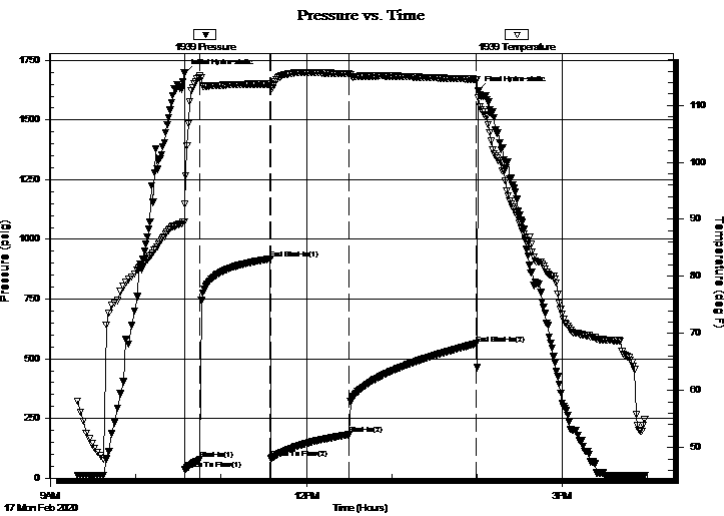
**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01398 **DST#: 4**  
 Test Start: 2020.02.17 @ 09:15:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:38:00  
 Tester: Gene Budig  
 Time Test Ended: 14:00:00  
 Unit No: 1  
 Interval: **3353.00 ft (KB) To 3360.00 ft (KB) (TVD)**  
 Reference Elevations: 1882.00 ft (KB)  
 Total Depth: 3360.00 ft (KB) (TVD)  
 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 9.00 ft

**Serial #: 1939 Outside**  
 Press@RunDepth: 563.05 psig @ 3357.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.17 End Date: 2020.02.17 Last Calib.: 2020.02.17  
 Start Time: 09:16:00 End Time: 15:58:00 Time On Btm: 2020.02.17 @ 10:34:00  
 Time Off Btm: 2020.02.17 @ 14:01:00

**TEST COMMENT:** 1st Opening 10 minutes Good blow built to 13 1/2 inches into the water  
 1syt Shut-In 45 Minutes no blow  
 2nd Opening 60 Minutes built to 13 inches and started decreasing to 1/2 blow  
 2nd shut-In 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.15	89.60	Initial Hydro-static
1	35.40	92.62	Open To Flow (1)
11	78.95	115.10	Shut-In(1)
61	918.49	113.72	End Shut-In(1)
61	82.10	113.01	Open To Flow (2)
116	182.26	115.61	Shut-In(2)
206	563.05	114.55	End Shut-In(2)
207	1622.92	111.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 Gas in the pipe	0.00
550.00	Clelan Gassy Oil 25% Gas 75% Oi	7.72
20.00	Oil Cut Muddy Water	0.28
0.00	10%Gas 20%Oil 20%Mud 50%Water	0.00
60.00	slightly oil andmud cut w ater	0.84
0.00	8%Gas 2%Oil 15% Mud 75%Water	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

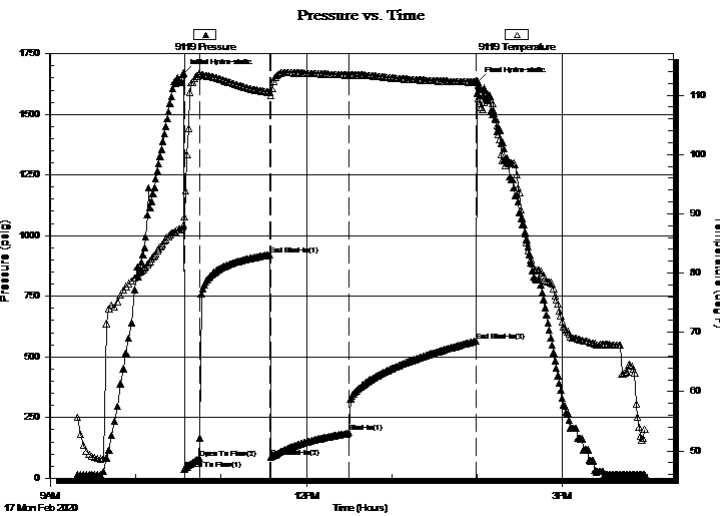
**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01398 **DST#: 4**  
 Test Start: 2020.02.17 @ 09:15:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:38:00  
 Tester: Gene Budig  
 Time Test Ended: 14:00:00  
 Unit No: 1  
 Interval: **3353.00 ft (KB) To 3360.00 ft (KB) (TVD)**  
 Reference Elevations: 1882.00 ft (KB)  
 Total Depth: 3360.00 ft (KB) (TVD)  
 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 9.00 ft

**Serial #: 9119 Inside**  
 Press@RunDepth: 566.21 psig @ 3356.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2020.02.17 End Date: 2020.02.17 Last Calib.: 2020.02.17  
 Start Time: 09:16:00 End Time: 15:58:00 Time On Btm: 2020.02.17 @ 10:33:30  
 Time Off Btm: 2020.02.17 @ 14:00:30

**TEST COMMENT:** 1st Opening 10 minutes Good blow built to 13 1/2 inches into the water  
 1syt Shut-In 45 Minutes no blow  
 2nd Opening 60 Minutes built to 13 inches and started decreasing to 1/2 blow  
 2nd shut-In 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.01	88.11	Initial Hydro-static
1	37.94	89.45	Open To Flow (1)
11	80.88	113.56	Open To Flow (2)
61	921.03	110.50	End Shut-In(1)
62	85.44	109.86	End Shut-In(2)
117	189.07	113.38	Shut-In(1)
206	566.21	112.20	End Shut-In(3)
207	1633.30	110.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	120 Gas in the pipe	0.00
550.00	Clelan Gassy Oil 25% Gas 75% Oi	7.72
20.00	Oil Cut Muddy Water	0.28
0.00	10%Gas 20%Oil 20%Mud 50%Water	0.00
60.00	slightly oil andmud cut w ater	0.84
0.00	8%Gas 2%Oil 15% Mud 75%Water	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01398 **DST#: 4**  
 Test Start: 2020.02.17 @ 09:15:00

## Tool Information

Drill Pipe:	Length: 3350.00 ft	Diameter: 3.80 inches	Volume: 46.99 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:	52000.00 lb
			<u>Total Volume: 46.99 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3353.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	30.00 ft				
Number of Packers:	1	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			3335.00	
Hydraulic tool	5.00			3340.00	
Jars	6.00			3346.00	
Safety Joint	2.00		Fluid	3348.00	
Packer	5.00			3353.00	23.00 Bottom Of Top Packer
Anchor	2.00			3355.00	
Recorder	1.00	9119	Inside	3356.00	
Recorder	1.00	1939	Outside	3357.00	
Bullnose	3.00			3360.00	7.00 Anchor Tool
<b>Total Tool Length:</b>	<b>30.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Edison Operating Company  
 8100 E.22nd St.N Building1900  
 Wichita Kansas 67226  
 ATTN: Adam Kennedy

**21-16s-10w Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01398 **DST#: 4**  
 Test Start: 2020.02.17 @ 09:15:00

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

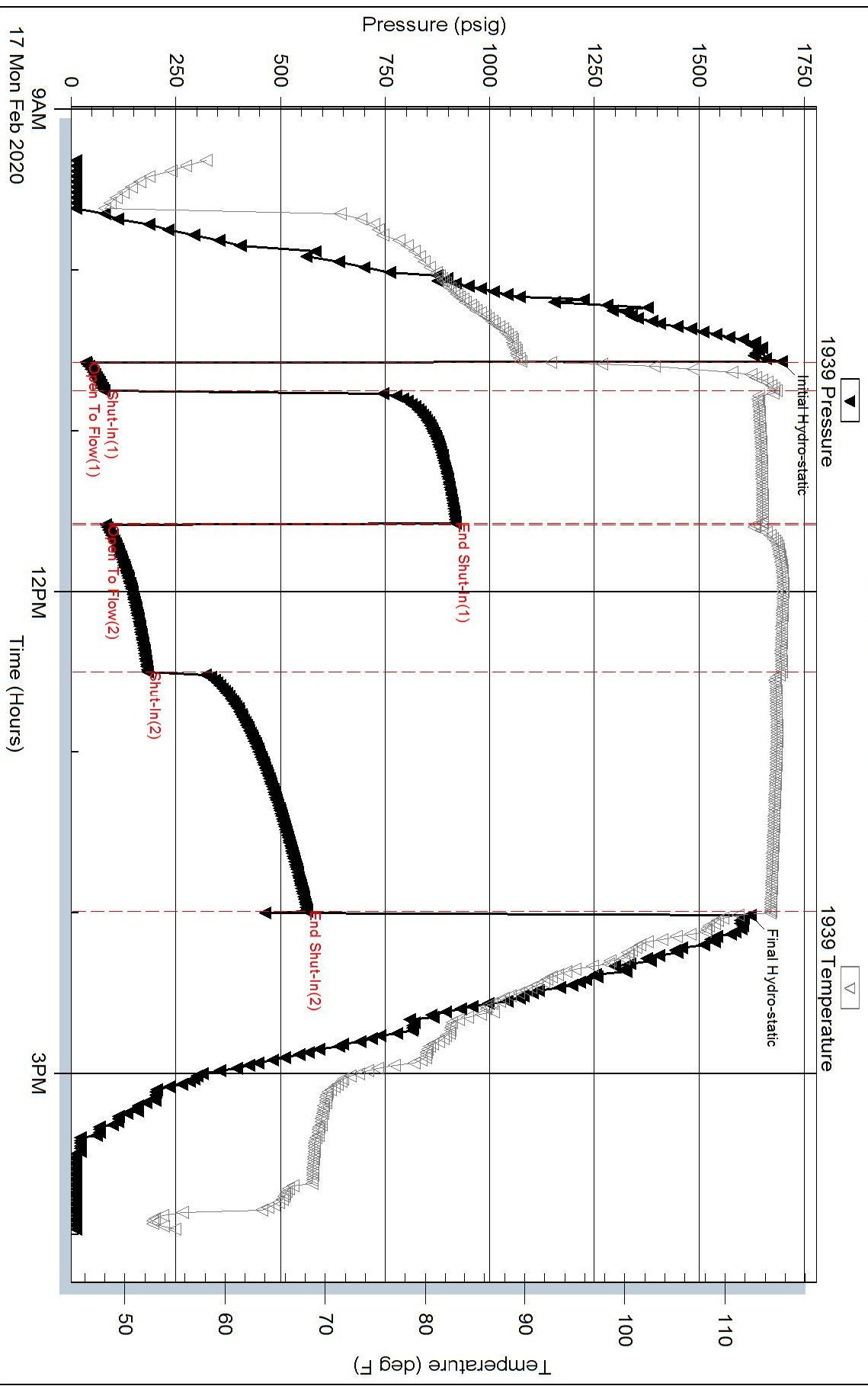
### Recovery Information

Recovery Table

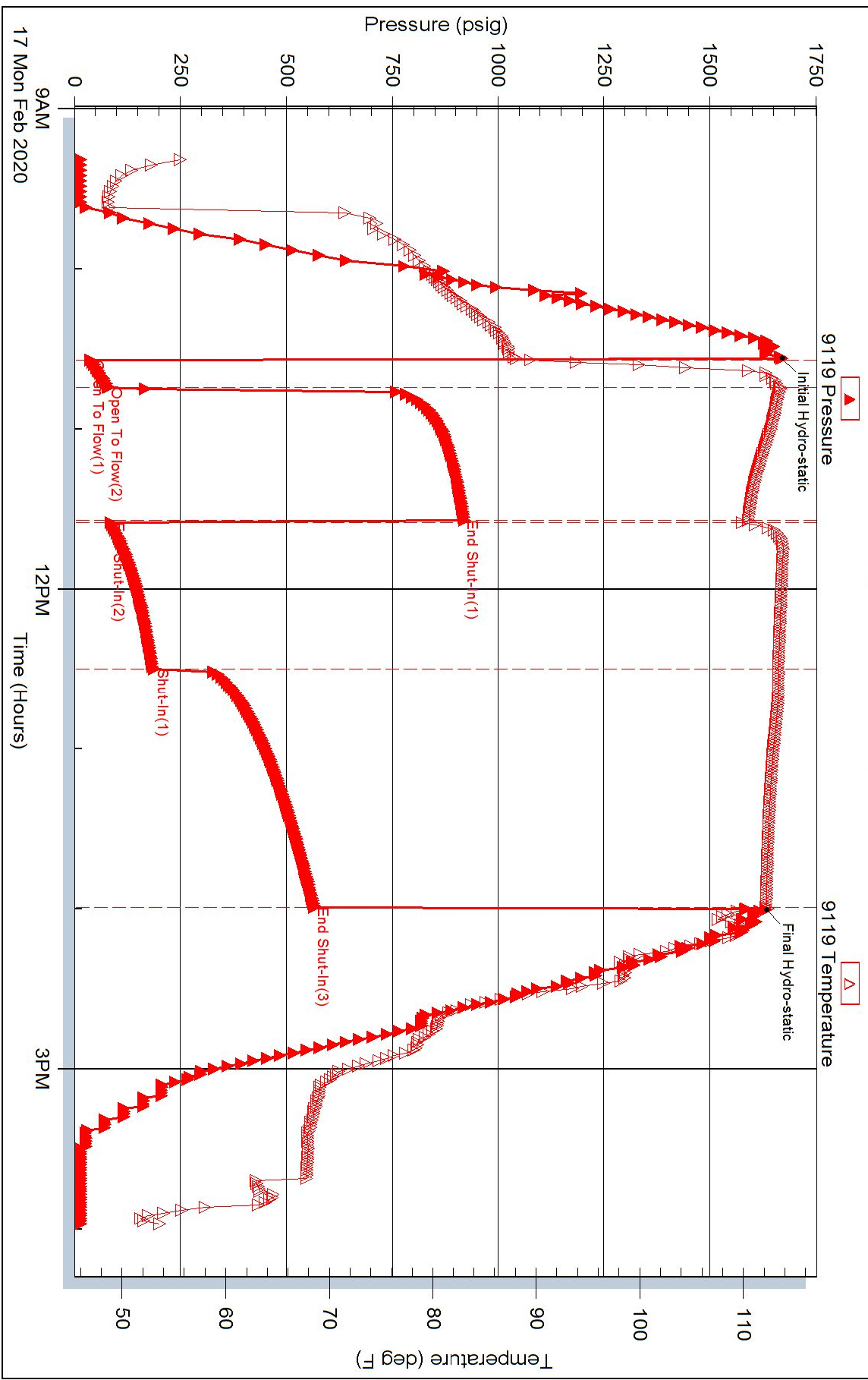
Length ft	Description	Volume bbl
0.00	120 Gas in the pipe	0.000
550.00	Clean Gassy Oil 25% Gas 75% Oi	7.715
20.00	Oil Cut Muddy Water	0.281
0.00	10%Gas 20%Oil 20%Mud 50%Water	0.000
60.00	slightly oil andmud cut w ater	0.842
0.00	8%Gas 2%Oil 15% Mud 75%Water	0.000
0.00	Chlorides 16000	0.000
0.00	Gravity 41 Corrected	0.000

Total Length: 630.00 ft      Total Volume: 8.838 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: 2/12/2020  
Invoice #: 0346544  
Lease Name: Stoeppelwerth  
Well #: 1-21 (New)  
County: Ellsworth, Ks  
Job Number: ICT3236  
District: Medicine Lodge

Date/Description	HRS/QTY	Rate	Total
8 58" Surface	0.000	0.000	0.00
Heavy Eq Mileage	200.000	3.400	680.00
Light Eq Mileage	100.000	1.700	170.00
Cement Pump	1.000	637.500	637.50
Cement Pozmix 60/40	325.000	11.050	3,591.25
Ton Mileage	1,400.000	1.275	1,785.00

*CEMENT FOR 8 5/8" CSW  
9208*

**Total** 6,863.75

**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!**



**HURRICANE SERVICES INC**

Customer	EDISON OPERATING COMPANY	Lease & Well #	STOEPPELWERTH #1-21		Date	2/12/2020	
Service District	MEDICINE LODGE	County & State	ELSWORTH, KS	Legal's S/T/R	21-16S-10W	Job #	
Job Type	<input checked="" type="checkbox"/> 5/8" SURFACE	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well? <input type="checkbox"/> YES <input type="checkbox"/> No	Ticket #	ICT 3236
Equipment #	Driver	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>					
75	LESLEY	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
266	RILEY	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
182-256	EJ	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
<b>Comments</b>							
Product / Service Code	Description	Unit of Measure	Quantity			Net Amount	
M010	Heavy Equipment Mileage	mi	200.00			\$680.00	
M015	Light Equipment Mileage	mi	100.00			\$170.00	
C010	Cement Pump	ea	1.00			\$837.50	
CP070	60/40/2 Pozmix	sack	325.00			\$3,691.25	
M020	Ton Mileage	tm	1,400.00			\$1,785.00	
Customer Section: On the following scale how would you rate Hurricane Services Inc? <span style="float:right;">Net: <b>\$6,863.75</b></span>							
Based on this job, how likely is it you would recommend HSI to a colleague?				Total Taxable	\$ -	Tax Rate:	
<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 <i>Extremely Likely</i>				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:		\$ 6,863.75	
				HSI Representative: <b>KEVEN LESLEY</b>			

**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**





**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: 2/18/2020  
Invoice #: 0346547  
Lease Name: Stoepfelwerth  
Well #: 1-21 (New)  
County: Ellis, Ks  
Job Number: ICT3276  
District: Medicine Lodge

Date/Description	HRS/QTY	Rate	Total
5 1/2" Longstring	0.000	0.000	0.00
H-Long	125.000	19.550	2,443.75
Ton Mileage	720.000	1.771	1,275.00
Cement Pump	1.000	918.000	918.00
Heavy Eq Mileage	100.000	3.400	340.00
Light Eq Mileage	200.000	1.700	340.00
Mud flush	500.000	1.573	786.25
5 1/2" Turbolizers	8.000	68.000	544.00
5 1/2" Floatshoe-Flapper AFU	1.000	318.750	318.75
5 1/2" LD Plug & Baffle	1.000	297.500	297.50
KCL	6.000	25.500	153.00
Cement Pozmix 60/40	30.000	11.050	331.50

*Cement for 5 1/2" CSW  
9318  
✓✓*

**Total** 7,747.75

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% 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!**



**HURRICANE SERVICES INC**

Customer	EDISON OPERATING COMPANY	Lease & Well #	STOEPPELWERTH # 1-21	Date	2/18/2020
Service District	MEDICINE LODGE, KS.	County & State	ELLSWORTH, KS	Legals S/T/R	21-18S-10W
Job Type	5 1/2" LONGSTRINGS PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Ticket #			

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
75	LESLEY	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
266	M. McGRAW	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
181-260	OSBOURN	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

**Comments**

Product/Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
CP030	H-Long	sack	125.00				\$2,443.75
C015	Cement Pump	ea	1.00				\$1,276.00
M020	Tan Mileage	tm	720.00				\$918.00
M010	Heavy Equipment Mileage	mi	100.00				\$340.00
M015	Light Equipment Mileage	mi	200.00				\$340.00
CP170	Mud Flush	gal	500.00				\$788.25
FE135	5 1/2 Turbolizers	ea	8.00				\$544.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00				\$318.75
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00				\$297.50
AF055	Liquid KCL Substitute	gal	5.00				\$153.00
CP070	604Q/2 Pozmix	sack	30.00				\$331.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Gross:		Net:		\$7,747.75
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable	\$ -	Tax Rate:		
<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"/>		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:	\$ -	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Total:	\$ 7,747.75	
		HSI Representative: <i>Keven Lesley</i>				

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X  CUSTOMER AUTHORIZATION SIGNATURE





Well Name: **Stoeppelwerth #1-21**  
 Surface Location: **Sec. 21-16S-10W**  
 Bottom Location: **15-185-21371-0000**  
 API: **15-185-21371-0000**  
 License Number: **34434**  
 Ground Elevation: **34434**  
 Spud Date: **5/25/2019**  
 Region: **Ellsworth County**  
 Drilling Completed: **5/25/2019**  
 Surface Coordinates: **1990° FNL & 950° FWL**  
 Bottom Hole Coordinates: **1869.00ft**  
 K.B. Elevation: **1878.00ft**  
 Logged Interval: **0.00ft**  
 Total Depth: **0.00ft**  
 Formation: **Arbuckle**  
 Fluid Type: **Chemical/Fresh Water Gel**  
 Time: **7:30 PM**  
 Time: **8:30 AM**  
 To: **0.00ft**

**OPERATOR**  
 Company: **Edison Operating Company LLC**  
 Address: **8100 E. 22nd St. North Building 1900 Wichita, KS 67226**  
 Contact Geologist: **David Withrow**  
 Contact Phone Nbr: **316.613.1544**  
 Well Name: **Stoeppelwerth #1-21**  
 Location: **Sec. 21-16S-10W 15-185-21371-0000**  
 Pool: **Kansas**  
 Field: **Stoltenberg**  
 Country: **USA**

**LOGGED BY**

**EDISON OPERATING COMPANY**  
 Company: **Edison Operating Company LLC**  
 Address: **8100 E. 22nd St. North Building 1900 Wichita, KS 67226**  
 Phone Nbr: **316.650.3677**  
 Logged By: **Geologist**  
 Name: **Adam T. Kennedy**

**REMARKS**

After review of the geologic log, DST results, and the open hole logs for the Stoeppelwerth #1-21, it was decided upon by operator to run 5 1/2" production casing for further evaluation of said well.  
 Respectfully Submitted,  
**Adam T. Kennedy**

**GENERAL INFORMATION**

Service Companies	
Drilling Contractor: Southwind Drilling - Rig #3	Drilling Fluid: Mud-Co/Service Mud Inc.
Tool Pusher: Jay Krier	Engineers: Matt Smith
Daylight Driller: Shawn Epp	
Evening Driller: Mike Savage	
Morning Driller: Darrel Hyot	
Gas Detector: Bluestem Environmental	Logging Company: ELI
Engineer: Keith Reavis	Engineer: Gus P.
Operational By: 2500'	Logs Ran: CDNL, DI, Micro, Sonic
	Testing Company: Eagle Testers
	Tester: Gene Budg

Deviation Survey		Pipe Strap	
Depth	Survey	Depth	Pipe Strap
343'	3 1/4 deg	3341'	09 LTB
3403'	1 deg		

Bit Record		Surface Casing						
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	WIZ	RR	-	432	432	432	3.75
2	7 7/8	Smith	RR	-	432	3430	2998	65.75

Ran 10 joints of new, 2 1/2" 8 5/8" casing, tally @ 421.73'. Set @ 432'. Used 325 sacks of 60/40 poz 30 sacks of rat hole, 4% cc 2% gel, cement circulated, by Hurricane (ticket #3226), plug down @ 2:00 am on 2.12.20.

Ran 80 joints of new 1 1/2" casing, tally @ 3418.07'. Set @ 3427'. Used 125 sacks of 60/40 poz, 30 sacks of rat hole, cemented by Hurricane, job complete @ 1:15 2.18.20.

**DAILY DRILLING REPORT**

Date	0700 Hrs Depth'	Previous 24 Hours of Operations
2.14.20	2459'	Geologist Adam T. Kennedy on location @ 1700 hrs 2.14.20. Currently drilling ahead through the Topeka. WOB: 30-35k RPM: 75 PP: 1000 SPM: 60 DMC: \$2,922.20 CMC: \$4,075.38
2.15.20	3150'	Drilling and connections Topeka, Douglas, Lansing. Currently drilling ahead through Lansing F. WOB: 30-35k RPM: 75 PP: 1000 SPM: 60 DMC: \$568.52 CMC: \$4,643.88
2.16.20	3341'	Drilling and connections Lansing through Arbuckle. CFS @ 3341'. Shows warrant test. Short trip 2000', re-condition hole, drop survey and strap out for DST #1. Conduct DST #1, THH to resume drilling. DMC: \$481.54 CMC: \$5,125.42
2.17.20	3380'	Drilling and connections Arbuckle. CFS @ 3348'. Shows warrant test, TOH for DST #2. Conduct test, THH to resume drilling. Drilling and connections Arbuckle, CFS @ 3354'. Shows warrant test, TOH for DST #3. Conduct test, THH to resume drilling. Currently CTCH. WOB: 35-40k RPM: 75 PP: 1000 SPM: 60 DMC: \$945.55 CMC: \$5,971.97
2.18.20	RTD - 3430'	Drilling and connections Arbuckle, CFS # 3360'. Shows warrant test, THH to conduct DST #4. Conduct test, THH to resume drilling, logging ahead to RTD of 3430'. RTD completed 2.17.20 @ 1900 hrs. Drop survey and TOH for rathole operations. Logging operations. Logging operations completed @ 0300 hrs 2.18.20. Geologist off location @ 2100 hrs 2.17.20.

**WELL COMPARISON SHEET**

Formation	Drilling Well			Comparison Well			50' FEL			
	Sample	Sub-Sample	Log	Sample	Sub-Sample	Log	Log	Sub-Sample	Sample	Log
EOC - Stoeppelwerth #1-21	1878 KB			DR Lauck - Stoeppelwerth #1	1865 KB		LB Exploration - Jezek #1	1891 KB		
	Unit: 51.72'			Sec 21-16S-10W			Sec 21-16S-10W			
	1990° FNL & 950° FWL			SW SE NW			1750° FNL & 1750° FEL			
	1869 GL			Oil - Arb			Dry			
	2816			Structural			Structural			
Hebner	2816	-1019	2816	Sample	2	2	Sample	2	2	2
	2927	-1038	2917	Log	2	2	Log	2	2	2
Douglas	2927	-1049	2926	Relationship	3	3	Relationship	3	3	3
Brown Lime	3002	-1124	3005	Sample	2	2	Sample	2	2	2
Lansing-Kansas City	3020	-1142	3024	Log	2	2	Log	2	2	2
LKC 'B'	3052	-1174	3051	Relationship	3	3	Relationship	3	3	3
LKC 'G'	3117	-1239	3116	Sample	2	2	Sample	2	2	2
Muncie Creek	3157	-1279	3157	Log	2	2	Log	2	2	2
LKC 'I'	3167	-1289	3168	Relationship	3	3	Relationship	3	3	3
LKC 'J'	3181	-1303	3183	Sample	2	2	Sample	2	2	2
LKC 'K'	3198	-1320	3203	Log	2	2	Log	2	2	2
Stark	3203	-1352	3233	Relationship	3	3	Relationship	3	3	3
Hushpuckney	3267	-1359	3241	Sample	2	2	Sample	2	2	2
Base Kansas City	3268	-1390	3267	Log	2	2	Log	2	2	2
Arbuckle	3335	-1457	3328	Relationship	3	3	Relationship	3	3	3
Total Depth	3430	-1552	3430	Sample	2	2	Sample	2	2	2

**ROCK TYPES**

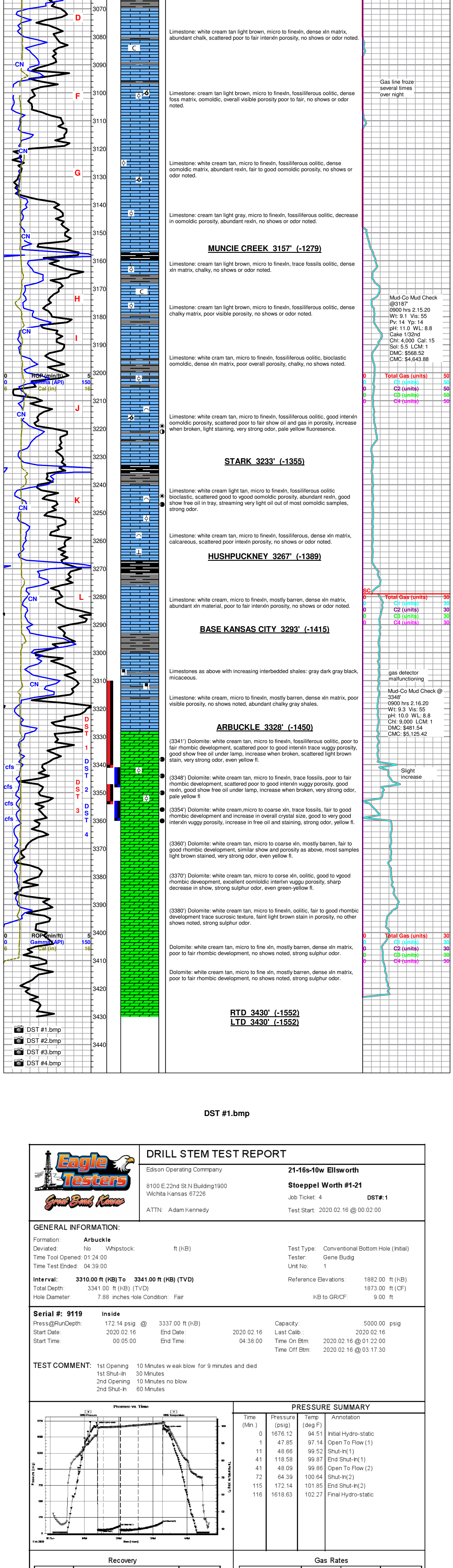
DOLZ	LMST1	LMST2	LMST3	SHALE TAN	SHALE GRN	SHALE GRA
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**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>	<b>TEXTURE</b>
Calcareous	Bioclastic or Fragmental	Chalky
Carbonaceous Flakes	Fossils < 20%	
Heavy dark minerals	Oolitic	
P Pyrite	Comoidic	

**OTHER SYMBOLS**

MISC	DST
DPH	BST1
Daily Report	BST2
Digital Photo	BST3
Document	Core
Folder	Oil pipe
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	



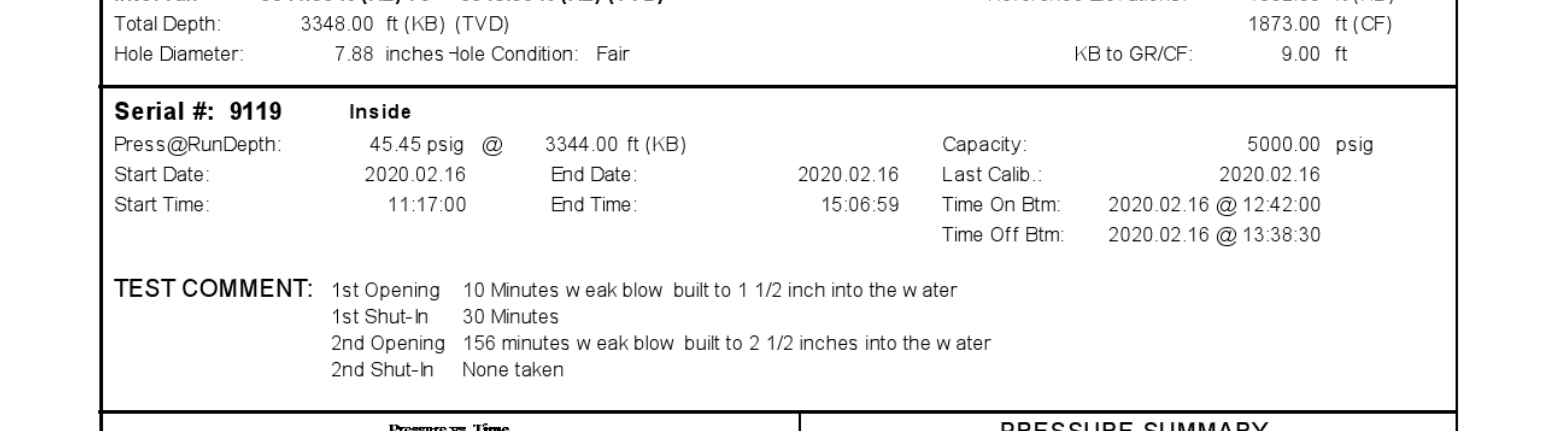
**DST #1.bmp**

**DRILL STEM TEST REPORT**  
 Edison Operating Company  
 8100 E. 22nd St. North Building 1900 Wichita Kansas 67226  
 ATTN: Adam Kennedy  
**21-16S-10W Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01396  
 DST#1  
 Test Start: 2020.02.16 @ 08:07:00

**GENERAL INFORMATION:**  
 Formation: **Arbuckle**  
 Deviated: No Whiptock ft (ft/B) 0  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:24:00 Tester: Gene Budg  
 Time Test Ended: 04:39:00 Unit No: 1  
 Reference Elevations: 1882.00 ft (ft/B)  
 Total Depth: 3341.00 ft (KB) To 3341.00 ft (TVD) 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches -hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 0119**  
 Press @ Run Depth: 172.14 psig @ 3337.00 ft (ft/B) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.16 Last Calc: 2020.02.16  
 Start Time: 00:05:00 End Time: 04:38:00 Time On Btm: 2020.02.16 @ 01:22:00  
 Time Off Btm: 2020.02.16 @ 03:17:30

**TEST COMMENT:** 1st Opening 10 Minutes weak blow for 9 minutes and died  
 1st Shut-In 30 Minutes  
 2nd Opening 10 Minutes no blow  
 2nd Shut-In 60 Minutes



Recovery		Gas Rates	
Length (ft)	Description	Volume (gal)	Gas Rate (ft/HR)
0.00	2 inches	0.00	
5.00	slightly oil speckled mud	0.07	
0.00	Heavy Oil	0.00	
30.00	Heavy Oil	0.42	
0.00	10% Gas 30% Oil 5% Water	0.00	
0.00	Spind out 10% Mud 5% Water	0.00	

Eagle Testers Ref No: 01396 Printed: 2020.02.16 @ 06:52:12

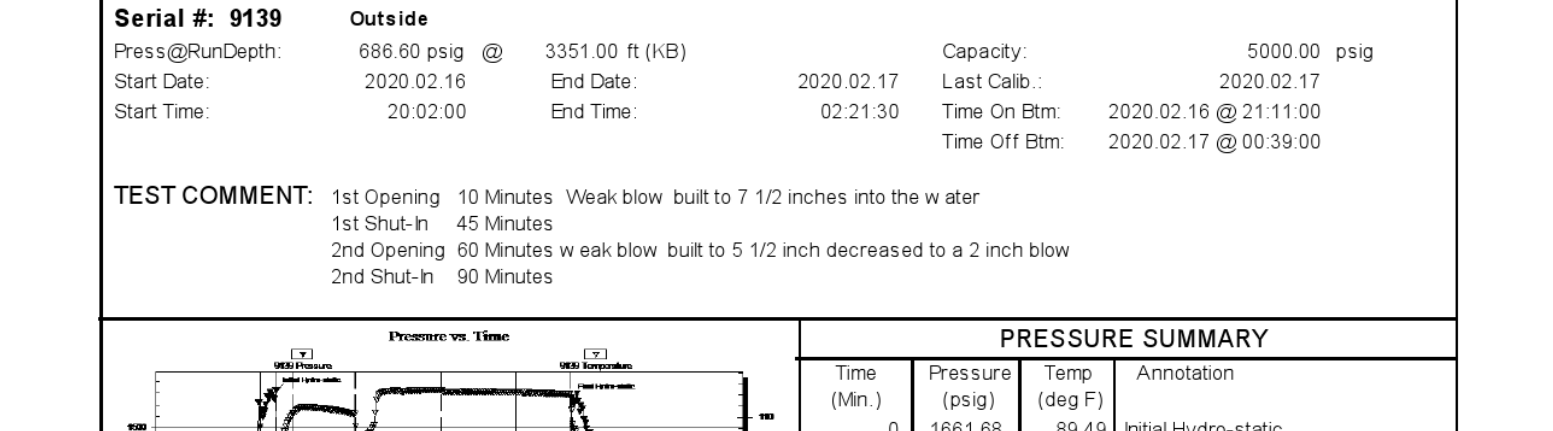
**DST #2.bmp**

**DRILL STEM TEST REPORT**  
 Edison Operating Company  
 8100 E. 22nd St. North Building 1900 Wichita Kansas 67226  
 ATTN: Adam Kennedy  
**21-16S-10W Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01396  
 DST#2  
 Test Start: 2020.02.16 @ 08:07:00

**GENERAL INFORMATION:**  
 Formation: **Arbuckle**  
 Deviated: No Whiptock ft (ft/B) 0  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 12:42:00 Tester: Gene Budg  
 Time Test Ended: 15:07:00 Unit No: 1  
 Reference Elevations: 1882.00 ft (ft/B)  
 Total Depth: 3341.00 ft (KB) To 3348.00 ft (TVD) 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches -hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 0119**  
 Press @ Run Depth: 45.45 psig @ 3344.00 ft (ft/B) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.16 Last Calc: 2020.02.16  
 Start Time: 11:17:00 End Time: 15:06:59 Time On Btm: 2020.02.16 @ 01:22:00  
 Time Off Btm: 2020.02.16 @ 03:30:30

**TEST COMMENT:** 1st Opening 10 Minutes weak blow built to 1 1/2 inches into the water  
 1st Shut-In 45 Minutes  
 2nd Opening 60 Minutes built to 13 inches and started decreasing to 1/2 inch blow  
 2nd Shut-In None taken



Recovery		Gas Rates	
Length (ft)	Description	Volume (gal)	Gas Rate (ft/HR)
0.00	300 feet of gas in the pipe	0.00	
2.00	clean gassy 1/4 2% Gas 90% Water	0.25	
0.00	Heavy Oil	0.00	
30.00	Heavy Oil	0.42	
0.00	10% Gas 30% Oil 5% Water	0.00	
0.00	Spind out 10% Mud 5% Water	0.00	

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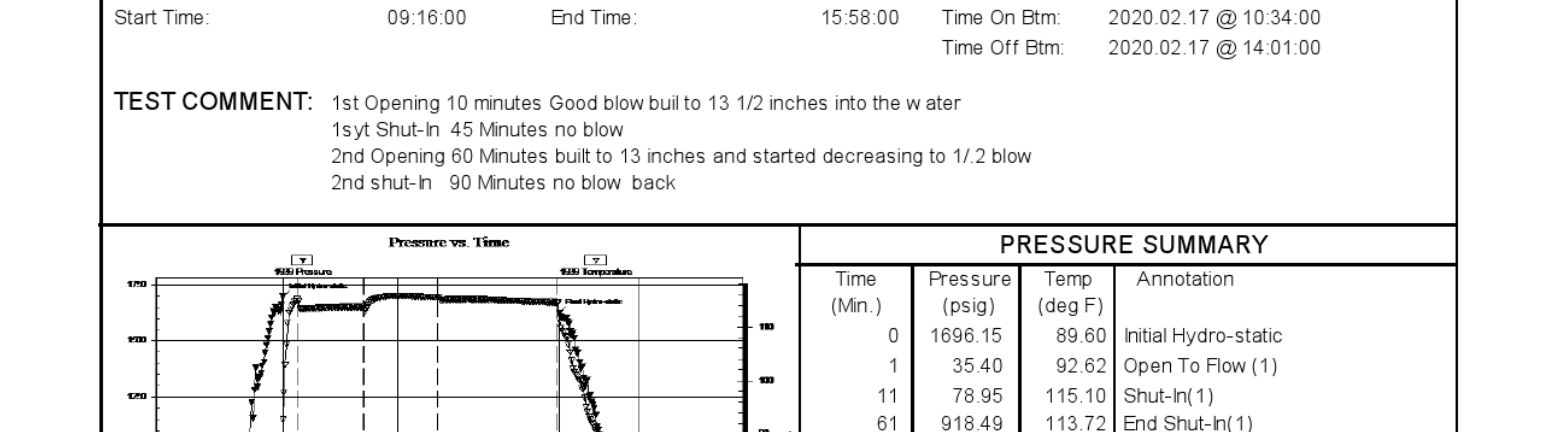
**DST #3.bmp**

**DRILL STEM TEST REPORT**  
 Edison Operating Company  
 8100 E. 22nd St. North Building 1900 Wichita Kansas 67226  
 ATTN: Adam Kennedy  
**21-16S-10W Ellsworth**  
**Stoeppel Worth #1-21**  
 Job Ticket: 01397  
 DST#3  
 Test Start: 2020.02.16 @ 08:07:00

**GENERAL INFORMATION:**  
 Formation: **Arbuckle**  
 Deviated: No Whiptock ft (ft/B) 0  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:21:00 Tester: Gene Budg  
 Time Test Ended: 02:30:00 Unit No: 1  
 Reference Elevations: 1882.00 ft (ft/B)  
 Total Depth: 3347.00 ft (KB) To 3354.00 ft (TVD) 1873.00 ft (CF)  
 Hole Diameter: 7.88 inches -hole Condition: Fair KB to GR/CF: 9.00 ft

**Serial #: 0139**  
 Press @ Run Depth: 896.80 psig @ 3351.00 ft (ft/B) Capacity: 5000.00 psig  
 Start Date: 2020.02.16 End Date: 2020.02.17 Last Calc: 2020.02.17  
 Start Time: 09:16:00 End Time: 15:58:00 Time On Btm: 2020.02.16 @ 01:34:00  
 Time Off Btm: 2020.02.17 @ 04:01:00

**TEST COMMENT:** 1st Opening 10 Minutes Weak blow built to 1 1/2 inches into the water  
 1st Shut-In 45 Minutes  
 2nd Opening 60 Minutes built to 13 inches and started decreasing to 1/2 inch blow  
 2nd Shut-In 30 Minutes



Recovery		Gas Rates	
Length (ft)	Description	Volume (gal)	Gas Rate (ft/HR)
0.00	120 Gas in the pipe	0.00	
5.00	clean gassy 1/4 2% Gas 90% Water	0.25	
0.00	Heavy Oil	0.00	
30.00	Heavy Oil	0.42	
0.00	10% Gas 30% Oil 5% Water	0.00	
0.00	Spind out 10% Mud 5% Water	0.00	

Eagle Testers Ref No: 01397 Printed: 2020.02.17 @ 16:33:44

**DST #4.bmp**

**DRILL STEM TEST REPORT**  
 Edison Operating Company  
 8100 E. 22nd St. North Building 1900 Wichita Kansas 67226  
 ATTN: Adam Kennedy  
**21-16S-10W Ellsworth**  
**Stoeppel Worth**