

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](mailto: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	WATERS 1-16
Doc ID	1639659

All Electric Logs Run

DUCP
MICRO
SONIC
DUAL INDUCTION





# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

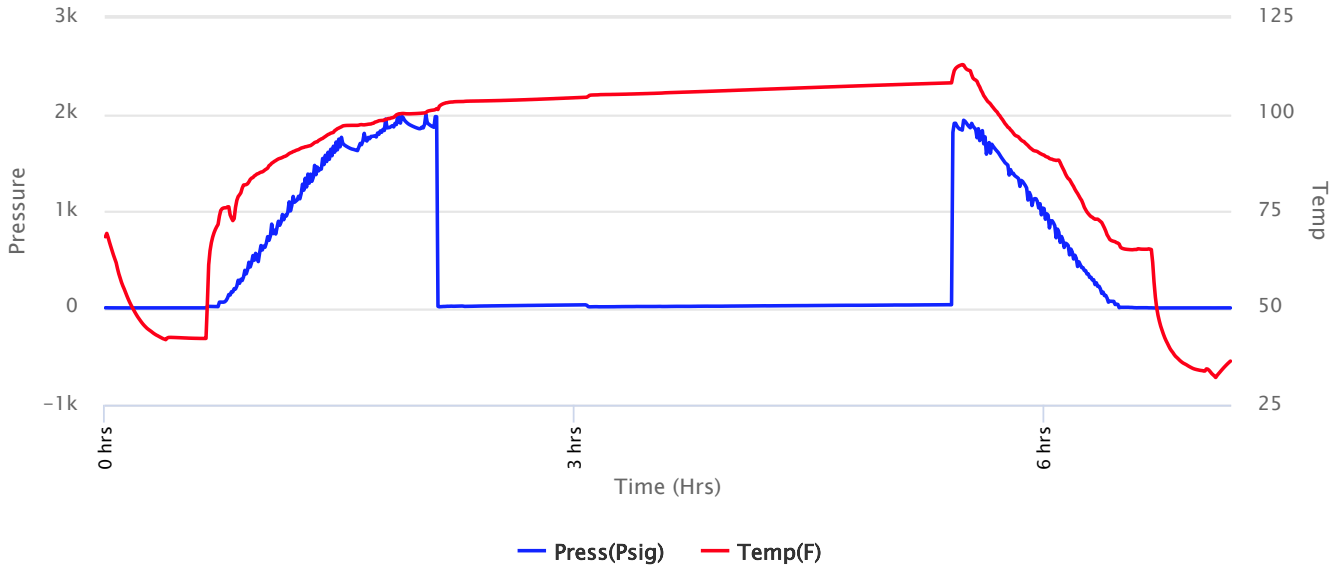
**DATE**  
March  
**30**  
2022

**DST #1**      **Formation: Lans H**      **Test Interval: 3806 - 3826'**      **Total Depth: 3826'**  
Time On: 20:35 03/30      Time Off: 03:35 03/31  
Time On Bottom: 22:40 03/30      Time Off Bottom: 01:50 03/31

Electronic Volume Estimate:  
5'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 45	Minutes: 90
Current Reading: .5" at 10 min	Current Reading: 0" at 45 min	Current Reading: 0" at 45 min	Current Reading: 0" at 90 min
Max Reading: .5"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





**Company: Edison Operating Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 March  
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**DST #1**      **Formation: Lans H**      **Test Interval: 3806 - 3826'**      **Total Depth: 3826'**  
 Time On: 20:35 03/30      Time Off: 03:35 03/31  
 Time On Bottom: 22:40 03/30      Time Off Bottom: 01:50 03/31

Recovered

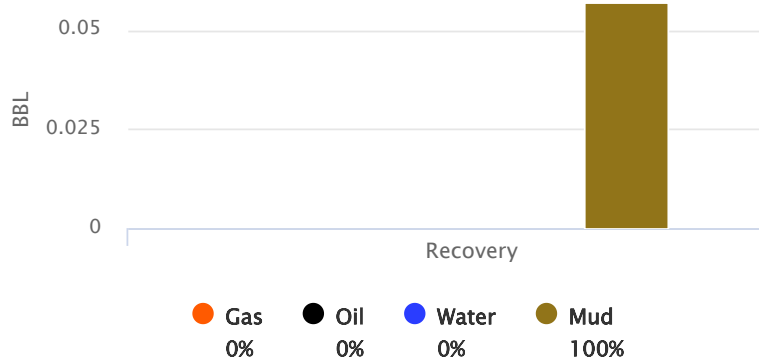
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
4	0.05692	M	0	0	0	100

Total Recovered: 4 ft  
 Total Barrels Recovered: 0.05692

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	1862	PSI
Initial Flow	11 to 19	PSI
<b>Initial Closed in Pressure</b>	<b>31</b>	<b>PSI</b>
Final Flow Pressure	11 to 16	PSI
<b>Final Closed in Pressure</b>	<b>32</b>	<b>PSI</b>
Final Hydrostatic Pressure	1857	PSI
Temperature	108	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0





# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
March  
**30**  
2022

**DST #1**      **Formation: Lans H**      **Test Interval: 3806 - 3826'**      **Total Depth: 3826'**  
Time On: 20:35 03/30      Time Off: 03:35 03/31  
Time On Bottom: 22:40 03/30      Time Off Bottom: 01:50 03/31

### Down Hole Makeup

<b>Heads Up:</b> 28.85 FT	<b>Packer 1:</b> 3801 FT
<b>Drill Pipe:</b> 3802.28 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3806 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3790.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3808 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 20	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 19 FT <i>4 1/2-FH</i>	







# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
March  
**30**  
2022

**DST #1**      **Formation: Lans H**      **Test Interval: 3806 - 3826'**      **Total Depth: 3826'**  
Time On: 20:35 03/30      Time Off: 03:35 03/31  
Time On Bottom: 22:40 03/30      Time Off Bottom: 01:50 03/31

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

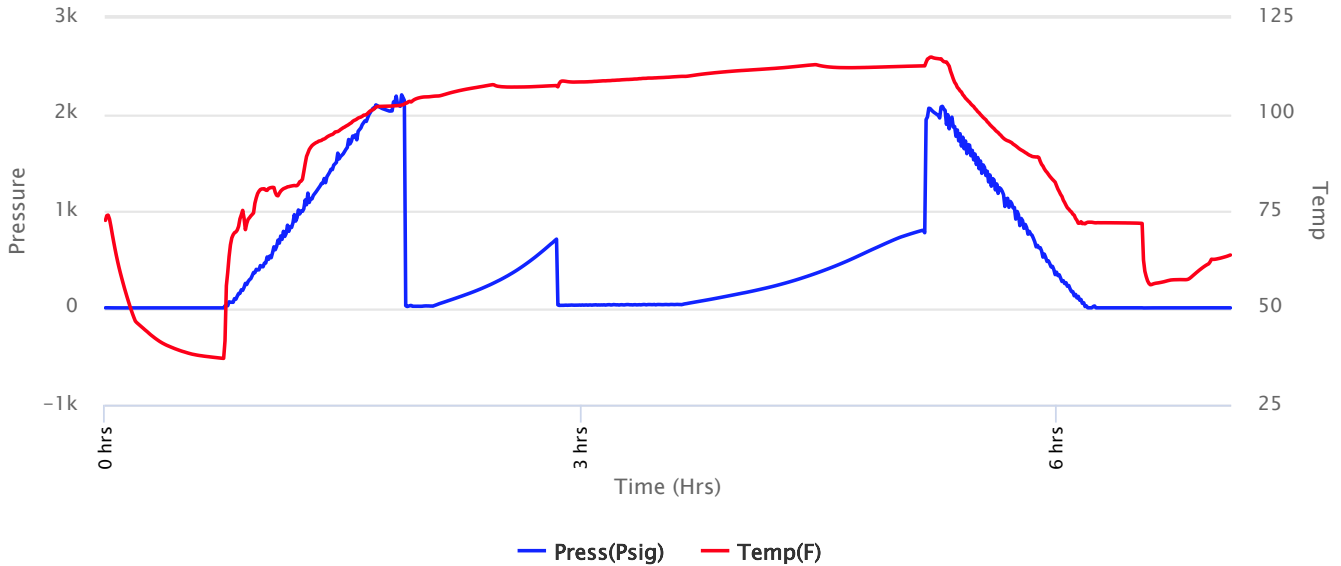
**DATE**  
April  
**01**  
2022

**DST #2**      **Formation: Viola**      **Test Interval: 4108 - 4158'**      **Total Depth: 4158'**  
Time On: 05:39 04/01      Time Off: 12:34 04/01  
Time On Bottom: 07:30 04/01      Time Off Bottom: 10:40 04/01

Electronic Volume Estimate:  
717'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 45	Minutes: 90
Current Reading: 12.5" at 10 min	Current Reading: 0" at 45 min	Current Reading: 55.2" at 45 min	Current Reading: 0" at 90 min
Max Reading: 12.5"	Max Reading: 0"	Max Reading: 55.2"	Max Reading: .6"

Inside Recorder





# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**01**  
 2022

**DST #2**      **Formation: Viola**      **Test Interval: 4108 - 4158'**      **Total Depth: 4158'**  
 Time On: 05:39 04/01      Time Off: 12:34 04/01  
 Time On Bottom: 07:30 04/01      Time Off Bottom: 10:40 04/01

Recovered

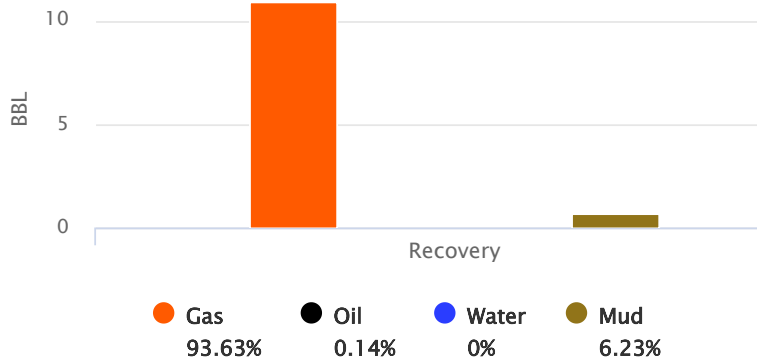
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
761	10.82903	G	100	0	0	0
58	0.82534	SLOCSLGCM	10	2	0	88

Total Recovered: 819 ft  
 Total Barrels Recovered: 11.65437

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	2078	PSI
Initial Flow	14 to 18	PSI
<b>Initial Closed in Pressure</b>	<b>709</b>	<b>PSI</b>
Final Flow Pressure	25 to 33	PSI
<b>Final Closed in Pressure</b>	<b>800</b>	<b>PSI</b>
Final Hydrostatic Pressure	2059	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 61.26298



**Company: Edison Operating  
Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**01**  
2022

<b>DST #2</b>	<b>Formation: Viola</b>	<b>Test Interval: 4108 - 4158'</b>	<b>Total Depth: 4158'</b>
	Time On: 05:39 04/01	Time Off: 12:34 04/01	
	Time On Bottom: 07:30 04/01	Time Off Bottom: 10:40 04/01	

**BUCKET MEASUREMENT:**

1st Open: 3/4" Blow. BOB in 9 minutes

1st Close: NOBB

2nd Open: BOB Instantly

2nd Close: 1/2" Blow Back

**REMARKS:**

Tool Sample: 20% Gas 4% Oil -10% Water 86% Mud



**Company: Edison Operating Company, LLC**

**Lease: Waters #1-16**

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 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
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**01**  
 2022

**DST #2**      **Formation: Viola**      **Test Interval: 4108 - 4158'**      **Total Depth: 4158'**  
 Time On: 05:39 04/01      Time Off: 12:34 04/01  
 Time On Bottom: 07:30 04/01      Time Off Bottom: 10:40 04/01

**Down Hole Makeup**

<b>Heads Up:</b> 10.11 FT	<b>Packer 1:</b> 4103.28 FT
<b>Drill Pipe:</b> 4085.82 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4108.28 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4092.7 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4145 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 49.72	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.72 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 15 FT <i>4 1/2-FH</i>	



**Company: Edison Operating  
Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**01**  
2022

**DST #2      Formation: Viola      Test Interval: 4108 -      Total Depth: 4158'**  
**4158'**  
Time On: 05:39 04/01      Time Off: 12:34 04/01  
Time On Bottom: 07:30 04/01      Time Off Bottom: 10:40 04/01

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.4      **Viscosity:** 51      **Filtrate:** 9.2      **Chlorides:** 8000 ppm



# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
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**DST #2**      **Formation: Viola**      **Test Interval: 4108 - 4158'**      **Total Depth: 4158'**  
Time On: 05:39 04/01      Time Off: 12:34 04/01  
Time On Bottom: 07:30 04/01      Time Off Bottom: 10:40 04/01

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

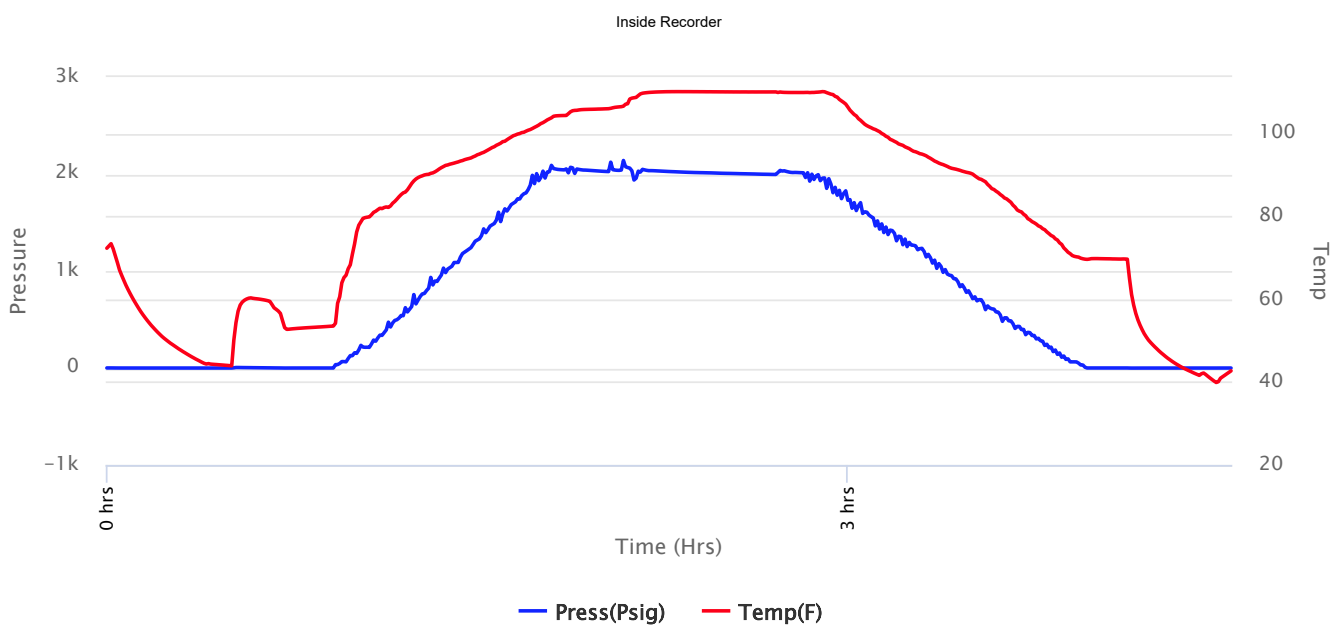
SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**02**  
2022

**DST #3**    **Formation: Arbuckle**    **Test Interval: 4244 - 4309'**    **Total Depth: 4309'**  
Time On: 02:32 04/02    Time Off: 07:04 04/02  
Time On Bottom: 05:15 04/02    Time Off Bottom: 00:00 01/01

Electronic Volume Estimate:    1st Open    1st Close    2nd Open    2nd Close  
0'    N/A    N/A    N/A    N/A





**Company: Edison Operating Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**02**  
 2022

**DST #3 Formation: Arbuckle Test Interval: 4244 - 4309' Total Depth: 4309'**

Time On: 02:32 04/02 Time Off: 07:04 04/02  
 Time On Bottom: 05:15 04/02 Time Off Bottom: 00:00 01/01

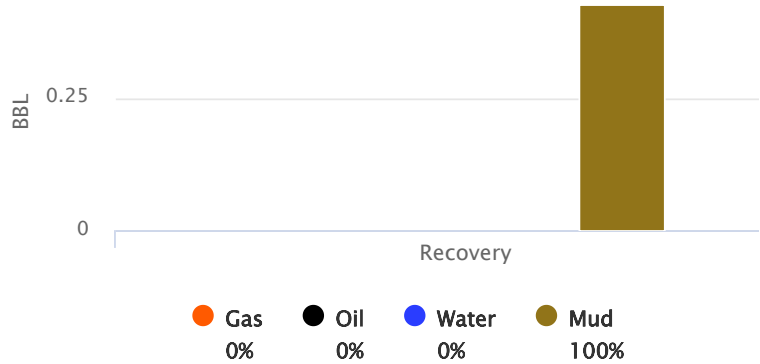
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.4269	M	0	0	0	100

Total Recovered: 30 ft  
 Total Barrels Recovered: 0.4269

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	0	PSI
Initial Flow	0	PSI
<b>Initial Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Flow Pressure	0	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	0	PSI
Temperature	0	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



**Company: Edison Operating  
Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**02**  
2022

**DST #3      Formation: Arbuckle      Test Interval: 4244 -      Total Depth: 4309'**  
**4309'**  
Time On: 02:32 04/02      Time Off: 07:04 04/02  
Time On Bottom: 05:15 04/02      Time Off Bottom: 00:00 01/01

**BUCKET MEASUREMENT:**

**REMARKS:**

Hit 7 feet of fill. On the way to bottom with head joint it was chipping on the way down. Never made it to bottom came back up and had to pull 50k several times over string weight which is 52k. Couldn't work the tool cause we couldn't go down.

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



**Company: Edison Operating Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**02**  
 2022

**DST #3      Formation: Arbuckle      Test Interval: 4244 - 4309'      Total Depth: 4309'**  
 Time On: 02:32 04/02      Time Off: 07:04 04/02  
 Time On Bottom: 05:15 04/02      Time Off Bottom: 00:00 01/01

**Down Hole Makeup**

<b>Heads Up:</b> 2.64 FT	<b>Packer 1:</b> 4239.16 FT
<b>Drill Pipe:</b> 4214.23 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4244.16 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4228.58 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4280 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 64.84	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.84 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 30 FT <i>4 1/2-FH</i>	



**Company: Edison Operating  
Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**02**  
2022

**DST #3      Formation: Arbuckle      Test Interval: 4244 -      Total Depth: 4309'**  
**4309'**

Time On: 02:32 04/02      Time Off: 07:04 04/02  
Time On Bottom: 05:15 04/02      Time Off Bottom: 00:00 01/01

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.8      **Viscosity:** 59      **Filtrate:** 8.8      **Chlorides:** 5000 ppm



# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**02**  
2022

**DST #3    Formation: Arbuckle    Test Interval: 4244 - 4309'    Total Depth: 4309'**  
Time On: 02:32 04/02    Time Off: 07:04 04/02  
Time On Bottom: 05:15 04/02    Time Off Bottom: 00:00 01/01

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**02**  
2022

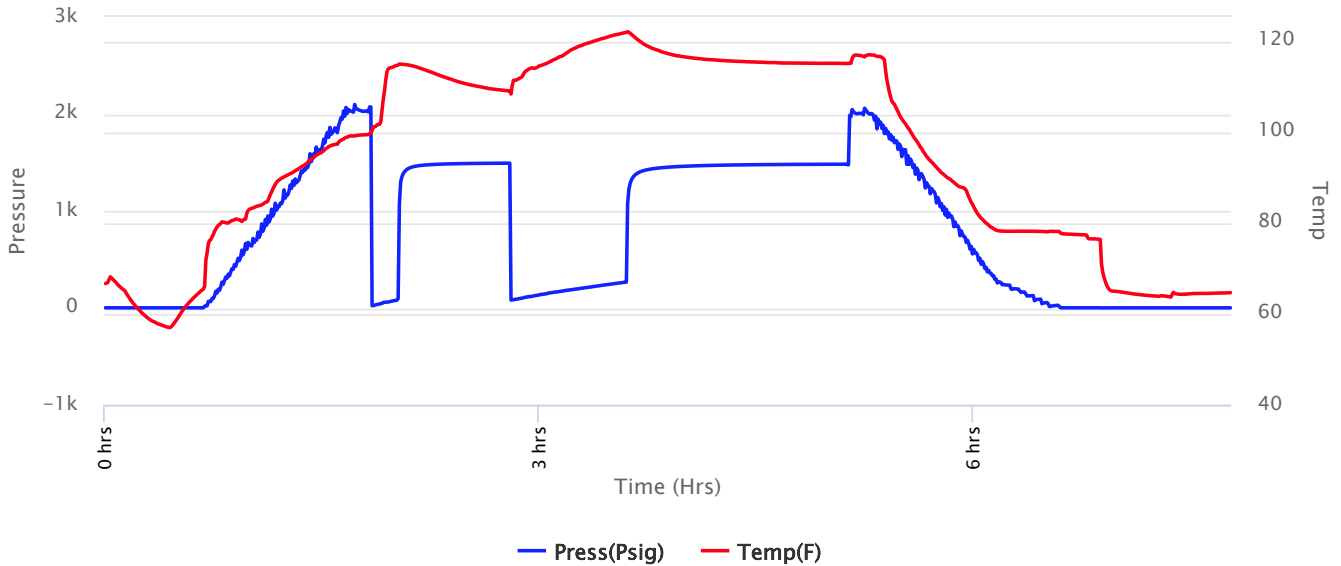
**DST #4**    **Formation: Arbuckle**    **Test Interval: 4244 - 4309'**    **Total Depth: 4309'**

Time On: 11:51 04/02    Time Off: 19:24 04/02  
Time On Bottom: 13:38 04/02    Time Off Bottom: 16:48 04/02

Electronic Volume Estimate:  
598'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 45	Minutes: 90
Current Reading: 13" at 10 min	Current Reading: 1" at 45 min	Current Reading: 40.8" at 45 min	Current Reading: 0" at 90 min
Max Reading: 13"	Max Reading: 1.5"	Max Reading: 40.8"	Max Reading: 0"

Inside Recorder





# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**02**  
 2022

**DST #4**    **Formation: Arbuckle**    **Test Interval: 4244 - 4309'**    **Total Depth: 4309'**

Time On: 11:51 04/02    Time Off: 19:24 04/02  
 Time On Bottom: 13:38 04/02    Time Off Bottom: 16:48 04/02

Recovered

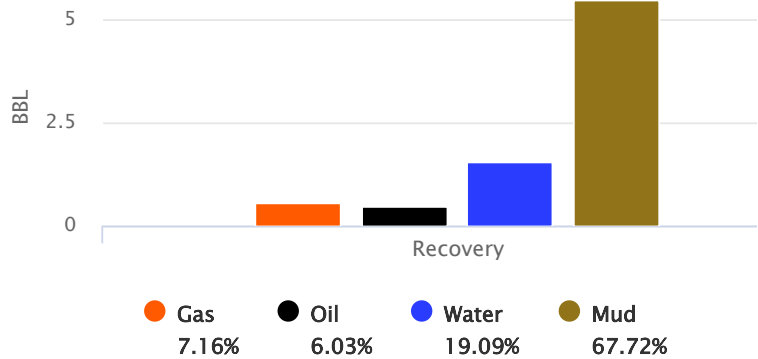
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
28	0.39844	G	100	0	0	0
1	0.01423	O	0	100	0	0
286	4.06978	SLOCSLWCM	0	5	7	88
126	1.79298	SLOCSLGCWCM	10	5	20	65
126	1.79298	SLOCHMCW	0	10	50	40

Total Recovered: 567 ft  
 Total Barrels Recovered: 8.06841

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	2020	PSI
Initial Flow	21 to 79	PSI
<b>Initial Closed in Pressure</b>	<b>1492</b>	<b>PSI</b>
Final Flow Pressure	80 to 266	PSI
<b>Final Closed in Pressure</b>	<b>1482</b>	<b>PSI</b>
Final Hydrostatic Pressure	2011	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	0.7	%

**Recovery at a glance**



GIP cubic foot volume: 3.24371





**Company: Edison Operating  
Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**02**  
2022

**DST #4      Formation: Arbuckle      Test Interval: 4244 -      Total Depth: 4309'**  
**4309'**  
Time On: 11:51 04/02      Time Off: 19:24 04/02  
Time On Bottom: 13:38 04/02      Time Off Bottom: 16:48 04/02

**BUCKET MEASUREMENT:**

1st Open: 1/2" Blow. BOB in 9 minutes  
1st Close: 1 1/2 Blow Back  
2nd Open: 3/4" Blow BOB in 12 minutes  
2nd Close: NOBB

**REMARKS:**

Tool Sample: 0% Gas 5% Oil 20% Water 75% Mud

Ph: 7

Measured RW: .34 @ 63 degrees °F

RW at Formation Temp: 0.183 @ 123 °F

Chlorides: 20000 ppm



# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**02**  
2022

**DST #4**    **Formation: Arbuckle**    **Test Interval: 4244 - 4309'**    **Total Depth: 4309'**  
Time On: 11:51 04/02    Time Off: 19:24 04/02  
Time On Bottom: 13:38 04/02    Time Off Bottom: 16:48 04/02

### Down Hole Makeup

<b>Heads Up:</b> 1.67999999999999 FT	<b>Packer 1:</b> 4239.16 FT
<b>Drill Pipe:</b> 4213.27 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4244.16 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4228.58 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 1 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 64.84	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 1 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.84 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 30 FT <i>4 1/2-FH</i>	



**Company: Edison Operating  
Company, LLC**

**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
April  
**02**  
2022

**DST #4      Formation: Arbuckle      Test Interval: 4244 -      Total Depth: 4309'**  
**4309'**

Time On: 11:51 04/02      Time Off: 19:24 04/02  
Time On Bottom: 13:38 04/02      Time Off Bottom: 16:48 04/02

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.1      **Viscosity:** 53      **Filtrate:** 8      **Chlorides:** 8000 ppm



# Company: Edison Operating Company, LLC

## Lease: Waters #1-16

SEC: 16 TWN: 24S RNG: 14W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 1  
Elevation: 1980 GL  
Field Name: Dillwin  
Pool: Infield  
Job Number: 563  
API #: 15-185-24106

**Operation:**  
Uploading recovery & pressures

**DATE**  
April  
**02**  
2022

DST #4    Formation: Arbuckle    Test Interval: 4244 - 4309'    Total Depth: 4309'

Time On: 11:51 04/02    Time Off: 19:24 04/02  
Time On Bottom: 13:38 04/02    Time Off Bottom: 16:48 04/02

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



# 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: 3/27/2022  
Invoice #: 0359685  
Lease Name: Waters  
Well #: 1-16 (New)  
County: Stafford, Ks  
Job Number: WP2584  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-CON	190.000	23.000	4,370.00
Cement Class A	190.000	17.480	3,321.20
Calcium Chloride	358.000	0.690	247.02
Cello Flake	49.000	1.610	78.89
Wooden plug 8 5/8"	1.000	138.000	138.00
Light Eq Mileage	25.000	1.840	46.00
Heavy Eq Mileage	50.000	3.680	184.00
Ton Mileage	448.000	1.380	618.24
Cement Blending & Mixing	380.000	1.288	489.44
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Data Acquisition	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00

*Cement for 8 5/8" CSW  
9208  
✓*

**Total** 10,917.79

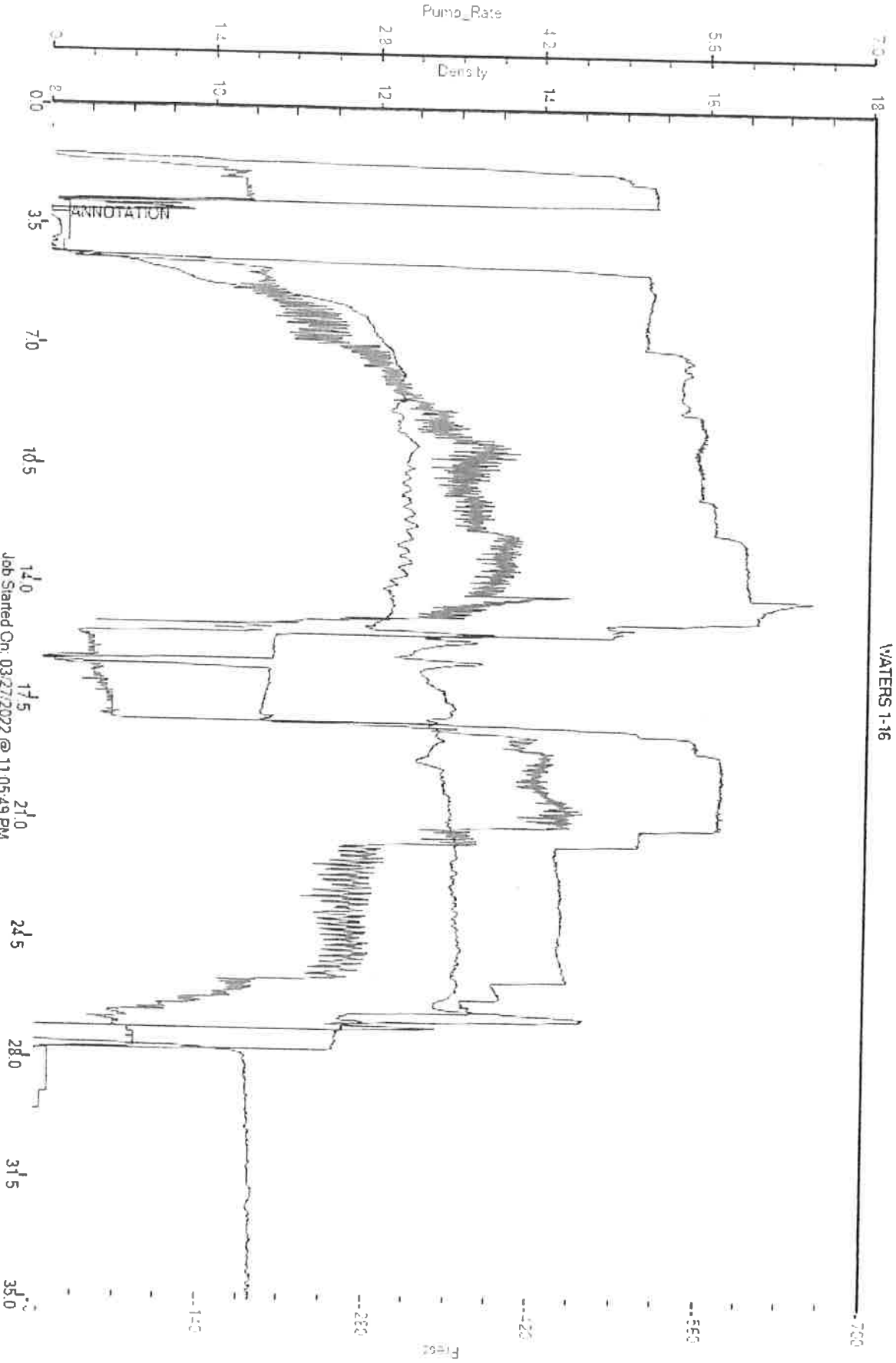
**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount 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!**



EDISON  
WATERS 1-16



Job Started On: 03/27/2022 @ 11:05:49 PM







**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: 4/3/2022  
Invoice #: 0359780  
Lease Name: Waters  
Well #: 1-16  
County: Stafford, Ks  
Job Number: WP2630  
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Plug	0.000	0.000	0.00
H-Plug	220.000	12.880	2,833.60
Light Eq Mileage	25.000	1.840	46.00
Heavy Eq Mileage	50.000	3.680	184.00
Ton Mileage	238.000	1.380	328.44
Cement Blending & Mixing	220.000	1.288	283.36
Depth Charge 4001'-5000'	1.000	2,300.000	2,300.00
Cement Data Acquisition	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00

*CEMENT TO PLUG WELL  
9208  
~*

Net Invoice	6,480.40
Sales Tax:	388.27
<b>Total</b>	<b>6,868.67</b>

**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.  
 250 N. Water St., Suite #200  
 Wichita, KS 67202



Customer		EDISON OPERATING COMPANY		WATERS 1-16		Date	4/3/2022		
Service District		PRATT		County & State		STAFFORD KS	Legals S/T/R	16-24S-14W	
Job Type		PLUG	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No	
Equipment #		Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
912		MATTAL		<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
179/521		BROCKMAN		<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
182/533		TREVINO		<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input 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 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		
G.P.55		H-Plug			sack	220.00	\$2,833.60		
M015		Light Equipment Mileage			mi	25.00	\$46.00		
M010		Heavy Equipment Mileage			mi	90.00	\$184.00		
M020		Ton Mileage			tn	218.00	\$328.44		
C050		Cement Blending & Mixing Service			sack	220.00	\$283.36		
C015		Depth Charge: 4001'-5000'			job	1.00	\$2,300.00		
C035		Cement Data Acquisition			job	1.00	\$230.00		
R061		Service Supervisor			day	1.00	\$275.00		
Customer Section: On the following scale how would you rate Hurricane Services Inc.?						Total Taxable		\$ -	
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						Tax Rate:		Net: \$6,480.40	
						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:		\$ 6,480.40	
						HSI Representative: <i>Mike Mattal</i>			

**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 *Frank J Rowe* **CUSTOMER AUTHORIZATION SIGNATURE**



**CEMENT TREATMENT REPORT**

Customer: EDISON OPERATING COMPANY	Well: WATERS 1-16	Ticket: WP2630
City, State: ST JOHN KS	County: STAFFORD KS	Date: 4/3/2022
Field Rep:	S-T-R: 16-24S-14W	Service: PLUG

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

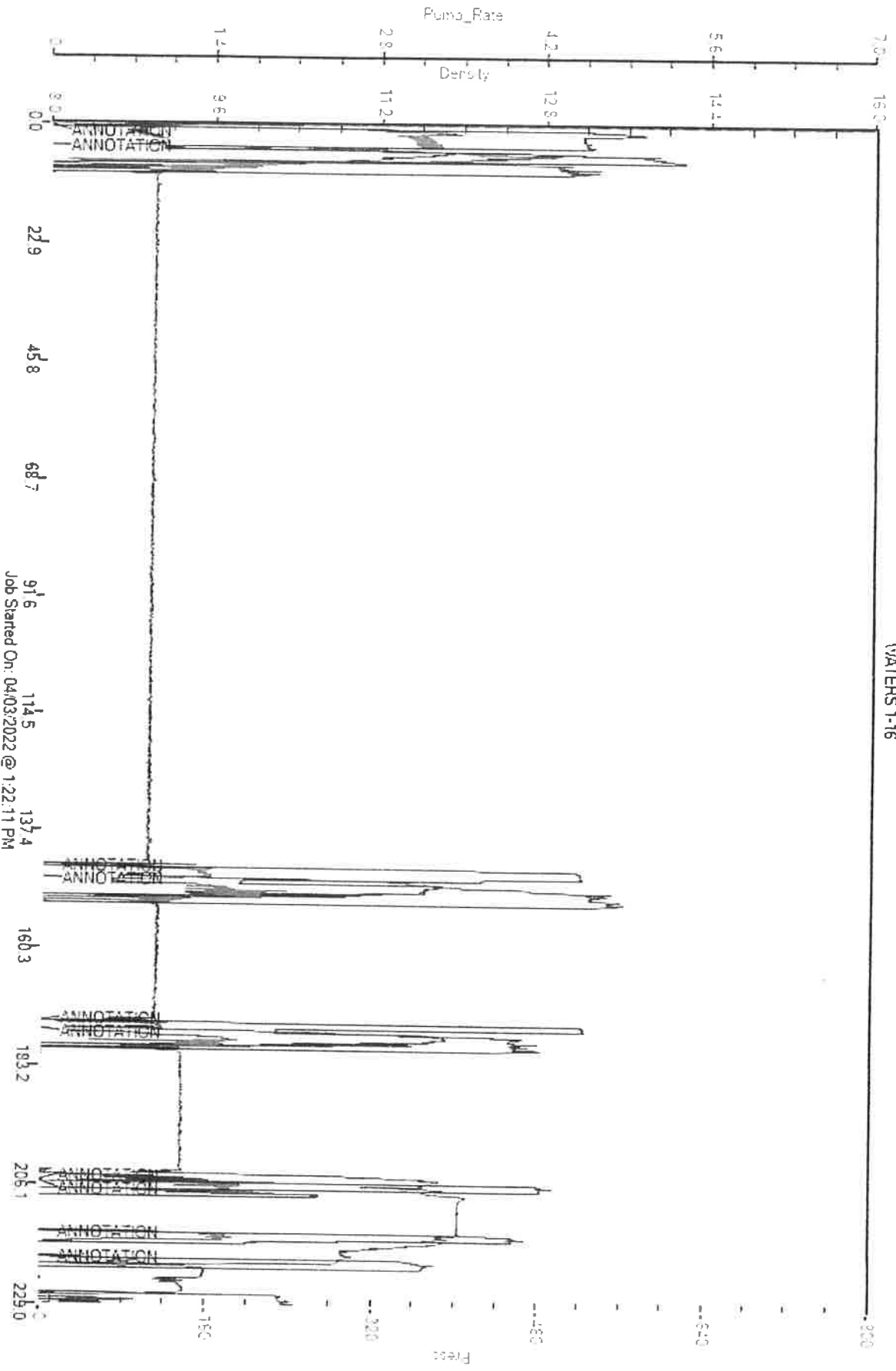
Calculated Slurry - Lead	
Blend:	H-PLUG
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	56.0 bbls
Total Sacks:	220 sx

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

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
1:30 PM			-	-	ON LOCATION
					1ST PLUG AT 4302'
2:19 PM	4.5	250.0	15.0	15.0	PUMP 15 BBL WATER
2:22 PM	3.0	200.0	13.7	28.7	MIX 50 SKS H-PLUG
2:26 PM	4.5	120.0	5.0	33.7	PUMP 5 BBL WATER
2:29 PM	6.0	200.0	45.0	78.7	PUMP 45 BBL MUD
				78.7	2ND PLUG AT 960'
4:42 PM	4.5	150.0	10.0	88.7	PUMP 10 BBL WATER
4:45 PM	2.0	70.0	13.7	102.4	MIX 50 SKS H-PLUG
4:48 PM	5.0	80.0	6.0	108.4	PUMP 6 BBL WATER
				108.4	3RD PLUG AT 390'
5:13 PM	4.5	110.0	3.0	111.4	PUMP 3 BBL WATER
5:14 PM	2.0	30.0	13.7	125.1	MIX 50 SKS H-PLUG
5:18 PM	4.0	80.0	1.0	126.1	PUMP 1 BBL WATER
				126.1	4TH PLUG AT 60'
5:43 PM	4.0	100.0	5.0	131.1	MIX 20 SKS H-PLUG
				131.1	CEMENT TO SURFACE
5:55 PM	2.0	50.0	7.0	138.1	MIX 30 SKS H-PLUG FOR RATHOLE
6:02 PM	2.0	50.0	5.0	143.1	MIX 20 SKS H-PLUG FOR MOUSEHOLE
					JOB COMPLETE, THANK YOU!
					MIKE MATTAL
					BRETT & JOSE

Cement:	CREW	UNIT	SUMMARY		
	Average Rate	Average Pressure	Total Fluid		
Pump Operator:	MATTAL	912	3.7 bpm	113 psi	143 bbls
Bulk #1:	BROCKMAN	179/521			
Bulk #2:	TREVINO	182/533			

EDISON OPERATING  
WATERS 1-16





**GENERAL INFORMATION**

**Service Companies**

Drilling Contractor: Southwind Drilling - Rig #1  
 Tool Pusher: Frank Rome  
 Daylight Driller: Jay Krier  
 Evening Driller: Mike Savage  
 Morning Driller: Sean Epp

Drilling Fluid: Mud-Co/Service Mud Inc.  
 Engineers: Brad Bortz

Gas Detector: Bluestem Environmental  
 Engineer: Keith Reavis  
 Unit: 5259  
 Operational By: 2400'

Logging Company: Eli Wireline  
 Engineer: Jeff Lubbers  
 Logs Ran: DI, CDNL, Micro, Sonic

Testing Company: Diamond Testing  
 Tester: Ricky Ray

**Deviation Survey**

Depth	Survey
364'	1 deg
4159'	3/4 deg

**Pipe Strap**

Depth	Pipe Strap
N/A	N/A

**Bit Record**

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	JZ	RR	-	0	363	363	4.5
2	7 7/8	PDC		-	363	2131	1768	30.5
3	7 7/8	JZ	RR	-	2131	4381	2250	64.25
4	7 7/8	JZ						

**Surface Casing**

3.27.22      Ran 9 joints of new 23# 8 5/8 casing, tally @ 351.36, set @ 363.53, used 380 sacks total, 190 sacks of H-con 190 sacks of class A, cement circulated, by Hurricane, ticket #WP3543, plug down @12:45am on 3.27.22.

**Production Casing Info**

--

**DAILY DRILLING REPORT**

Date	0700 Hrs Depth	Previous 24 Hours of Operations
3.29.22	3200'	Geologist, Adam T. Kennedy on location @ 1600 hrs, 3.29.22. Currently drilling through Heebner. WOB: 30-32k RPM: 75 PP: 950 SPM: 60 DMC: \$2,281.65 CMC: \$7,268.34
3.30.22	3700'	Drilling and connections Heebner, Douglas, Lansing. WOB: 30-32k RPM: 75 PP: 950 SPM: 60 DMC: \$112.53 CMC: \$7,752.59
3.31.22	3850'	Drilling and connections Lansing. Short trip 20 stands @ 3800'. Had to ream 4 stands back to bottom. Drilling and connections Lansing, CFS @ 3827'. Shows warrant test, conduct DST #1, resume drilling. WOB: 30-32k RPM: 75 PP: 950 SPM: 60 DMC: \$0 CMC: \$7,752.59
4.1.22	4159'	Drilling and connections Lansing, Marmaton, Viola. CFS @ 4159'. Conduct short trip, TOH for DST #2. Currently conducting test. WOB: 38k RPM: 75 PP: 950 SPM: 60 DMC: \$2,466.88 CMC: \$10,909.01
4.2.22	4308'	Finish DST #2, drilling and connections Viola, Simpson, Arbuckle. CFS @ 4308'. TOH for DST #3, hit bridge could not reach bottom. TOH to condition hole. TIH to conduct DST #4. WOB: 38k RPM: 75 PP: 950 SPM: 60 DMC: \$228.80 CMC: \$11,137.81
4.3.22	4384'	Conduct DST #4, TOH to resume drilling. Drill and connections Arbuckle. RTD of 4384' reached at 23:00 hrs 4.2.22. TOH for logging operations, logging completed 0900 hrs 4.3.22. Geologist off location @ 0930 hrs 4.3.22. Plugging completed 18:00 hrs 4.3.22. WOB: 38k RPM: 75 PP: 950 SPM: 60 DMC: \$0.00 CMC: \$11,137.81.



**Company: Edison Operating Company, LLC**  
**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 March  
**30**  
 2022

**DST #1**      **Formation: Lans H**      **Test Interval: 3806 - 3826'**      **Total Depth: 3826'**  
 Time On: 20:35 03/30      Time Off: 03:35 03/31  
 Time On Bottom: 22:40 03/30      Time Off Bottom: 01:50 03/31

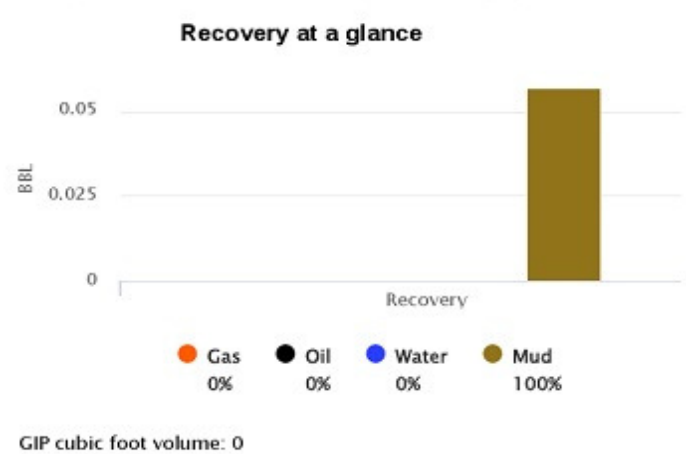
**Recovered**  
 Foot      BBLs  
 4      0.05692

**Description of Fluid**  
 M

**Gas %**      **Oil %**      **Water %**      **Mud %**  
 0      0      0      100

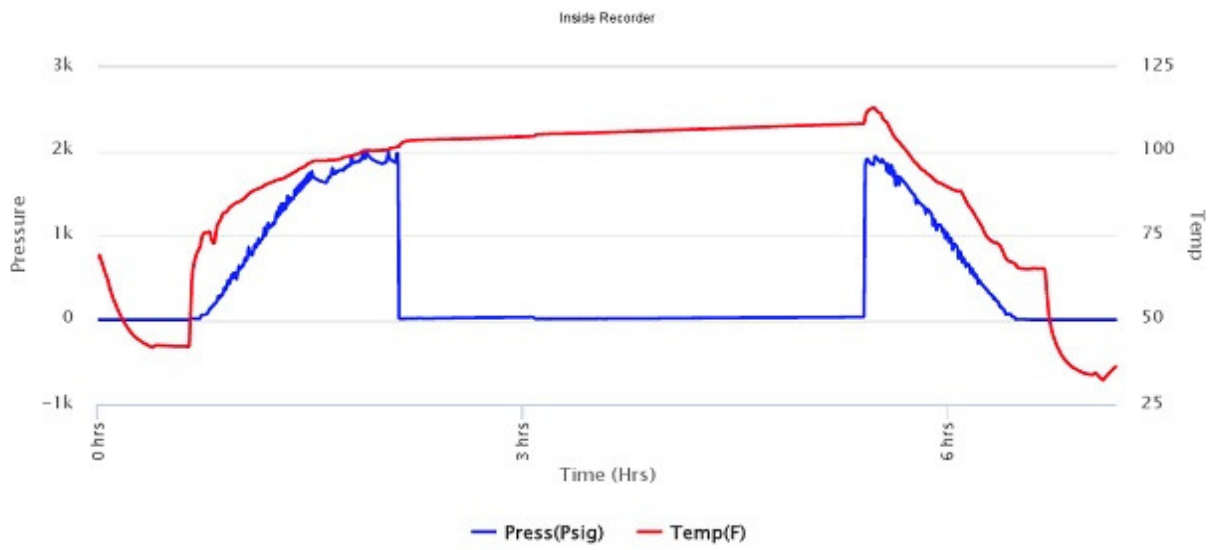
Total Recovered: 4 ft  
 Total Barrels Recovered: 0.05692

**Reversed Out**  
 NO



Initial Hydrostatic Pressure      1862      PSI  
 Initial Flow      11 to 19      PSI  
**Initial Closed in Pressure**      **31**      **PSI**  
 Final Flow Pressure      11 to 16      PSI  
**Final Closed in Pressure**      **32**      **PSI**  
 Final Hydrostatic Pressure      1857      PSI  
 Temperature      108      °F

Pressure Change Initial Close / Final Close      0.0      %







**Company: Edison Operating Company, LLC**  
**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**01**  
 2022

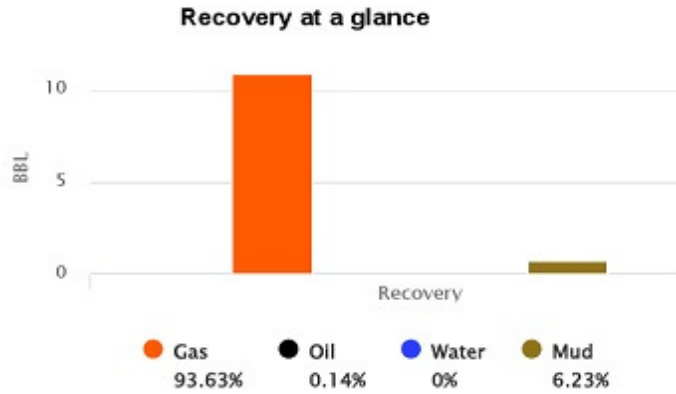
**DST #2**      **Formation: Viola**      **Test Interval: 4108 - 4158'**      **Total Depth: 4158'**  
 Time On: 05:39 04/01      Time Off: 12:34 04/01  
 Time On Bottom: 07:30 04/01      Time Off Bottom: 10:40 04/01

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
761	10.82903	G	100	0	0	0
58	0.82534	SLOCSLGCM	10	2	0	88

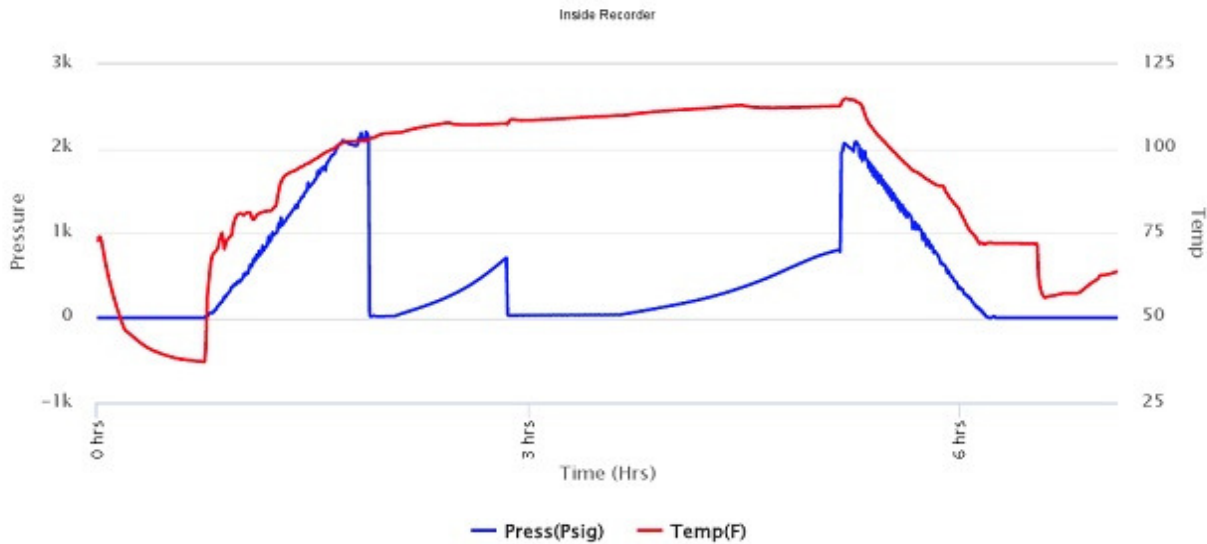
Total Recovered: 819 ft  
 Total Barrels Recovered: 11.65437

Reversed Out  
 NO

Initial Hydrostatic Pressure	2078	PSI
Initial Flow	14 to 18	PSI
Initial Closed in Pressure	709	PSI
Final Flow Pressure	25 to 33	PSI
Final Closed in Pressure	800	PSI
Final Hydrostatic Pressure	2059	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%



GIP cubic foot volume: 61.26298





**Company: Edison Operating Company, LLC**  
**Lease: Waters #1-16**

SEC: 16 TWN: 24S RNG: 14W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 1  
 Elevation: 1980 GL  
 Field Name: Dillwin  
 Pool: Infield  
 Job Number: 563  
 API #: 15-185-24106

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 April  
**02**  
 2022

**DST #4 Formation: Arbuckle Test Interval: 4244 - 4309' Total Depth: 4309'**  
 Time On: 11:51 04/02 Time Off: 19:24 04/02  
 Time On Bottom: 13:38 04/02 Time Off Bottom: 16:48 04/02

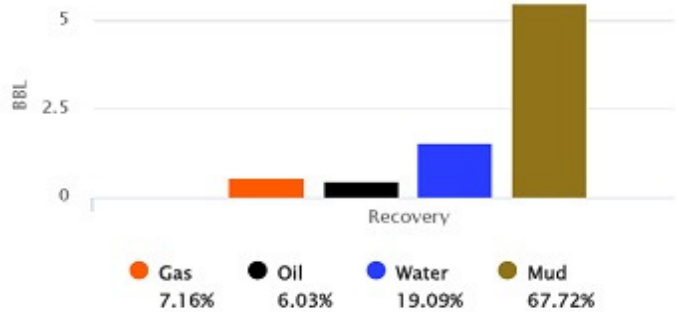
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
28	0.39844	G	100	0	0	0
1	0.01423	O	0	100	0	0
286	4.06978	SLOCSLWCM	0	5	7	88
126	1.79298	SLOCSLGCWCM	10	5	20	65
126	1.79298	SLOCHMCW	0	10	50	40

Total Recovered: 567 ft  
 Total Barrels Recovered: 8.06841

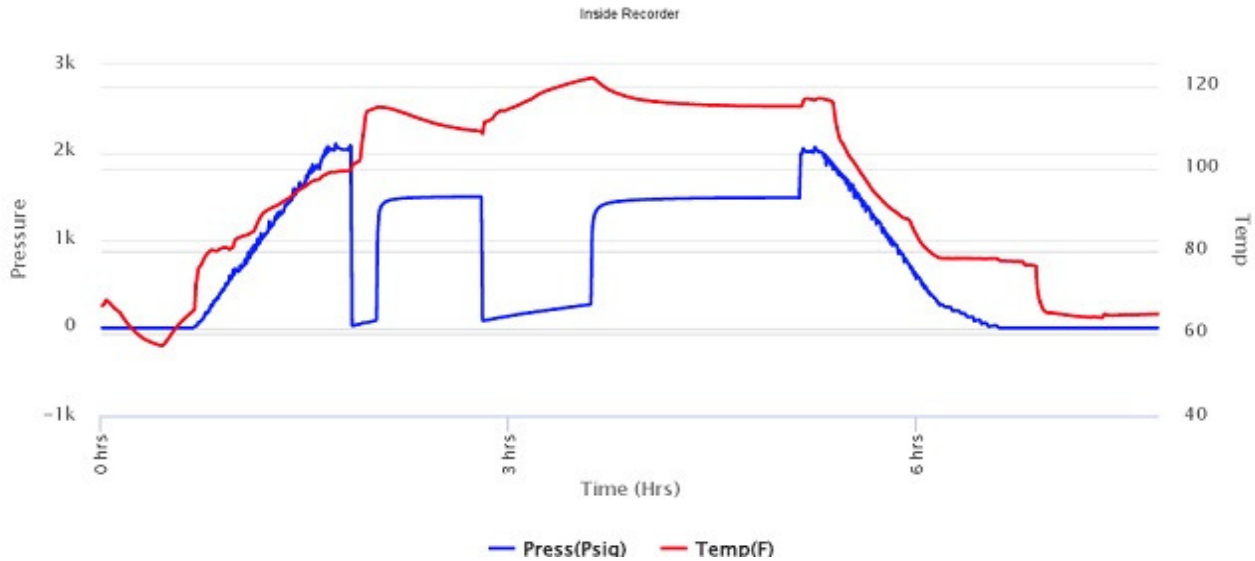
Reversed Out  
 NO

Initial Hydrostatic Pressure	2020	PSI
Initial Flow	21 to 79	PSI
Initial Closed in Pressure	1492	PSI
Final Flow Pressure	80 to 266	PSI
Final Closed in Pressure	1482	PSI
Final Hydrostatic Pressure	2011	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	0.7	%

Recovery at a glance



GIP cubic foot volume: 3.24371



# ROCK TYPES

## LITHOLOGY

- Cht brown
- Cht multi
- Cht white
- Congl
- Dol1
- Dol2
- Dol3
- Dol4
- Igneous
- Lmst1
- Lmst2
- Lmst3
- Lmst4
- Lmst5
- Meta
- Sandylms
- Sh brown
- Sh carbonaceous
- Sh gray
- Sh green
- Sh red
- Sh teal
- Sh white
- Sh yellow

- Sltstn
- Ss
- Dtd
- Pipesymbol

## FOSSIL

- Oomoldic
- Bioclst
- Crin
- Fossil
- Oolite

## MINERAL

- Sltly
- Sand
- Dol
- Chlorite
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Glau
- Hvymin

- Minxl
- Nodule
- Pyr
- Sandy
- Silt
- Sil
- Sulphur

## STRINGER

- Lmst4
- Lmst2
- Sh
- Sandylms
- Lms1
- Gryslt
- Lmst3
- Sh teal
- Sh gray
- Dol
- Dol1
- Carbsh
- Dol
- Lmst
- Sltstrg
- Ssstrg

## TEXTURE

- Chalky
- Cryxln
- Earthy
- Lithogr
- Microxln

## OIL SHOW

- Gas show
- Even
- Spotted
- Poor
- Dead

## INTERVAL

- Dst1
- Dst2
- Dst3
- Core
- Tail pipe

## EVENT

- Open hole

