

Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	KARL 1-11
Doc ID	1716771

All Electric Logs Run

DUCP
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	KARL 1-11
Doc ID	1716771

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	898	H-CON/Classes A	450	3% cc, 1/4# floccell



Company: Edison Operating Company, LLC

Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery & pressures

DATE

May
25
2023

DST #1

Formation:
Mississippi

Test Interval: 4970 -
5027'

Total Depth: 5027'

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25

Time Off Bottom: 06:37 05/25

Electronic Volume
Estimate:

732'

1st Open
Minutes: 10

Current Reading:

22.8" at 10 min

Max Reading: 22.8"

1st Close
Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open
Minutes: 45

Current Reading:

26.8" at 45 min

Max Reading: 26.8"

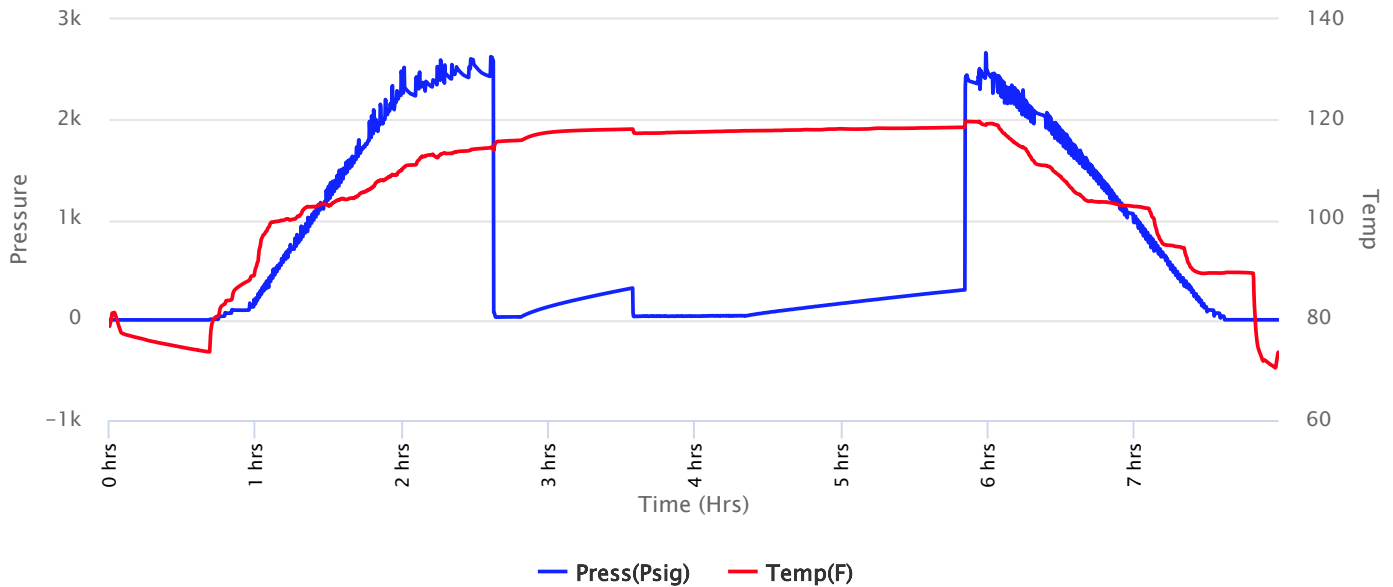
2nd Close
Minutes: 90

Current Reading:

0" at 90 min

Max Reading: 0"

Inside Recorder





**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
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25
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Formation:
Mississippi

**Test Interval: 4970 -
5027'**

Total Depth: 5027'

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25

Time Off Bottom: 06:37 05/25

Recovered

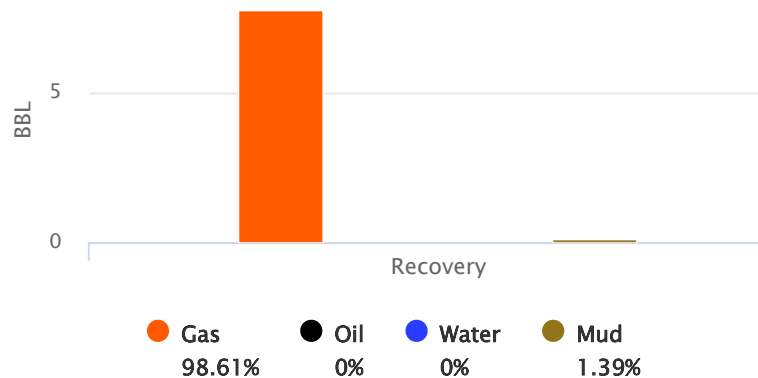
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
862	7.76648402	G	100	0	0	0
20	0.1096	M	0	0	0	100

Total Recovered: 882 ft

Total Barrels Recovered: 7.87608402

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2582	PSI
Initial Flow	28 to 30	PSI
Initial Closed in Pressure	316	PSI
Final Flow Pressure	37 to 41	PSI
Final Closed in Pressure	301	PSI
Final Hydrostatic Pressure	2370	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	5.0	%

GIP cubic foot volume: 43.60492

**Operation:**

Uploading recovery &
pressures

Company: Edison Operating Company, LLC

Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
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API #: 15-033-21798

DATE

May
25
2023

DST #1

Formation:
Mississippi

Test Interval: 4970 - Total Depth: 5027'
5027'

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25 Time Off Bottom: 06:37 05/25

BUCKET MEASUREMENT:

1st Open: BoB 2 minute 30 seconds

1st Close: No blowback

2nd Open: BoB 1 minute

2nd Close: No blowback

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



**Company: Edison Operating
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Lease: Karl #1-11

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County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
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Field Name: Alford
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Operation:

Uploading recovery &
pressures

DATE

May
25
2023

DST #1

Formation:
Mississippi

Test Interval: 4970 - 5027' **Total Depth: 5027'**

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25 Time Off Bottom: 06:37 05/25

Down Hole Makeup

Heads Up: 25.73 FT

Packer 1: 4965 FT

Drill Pipe: 4717.58 FT

Packer 2: 4970 FT

ID-3 1/4

Top Recorder: 4954.42 FT

Weight Pipe: FT

Bottom Recorder: 5025 FT

ID-2 7/8

Collars: 245.58 FT

Well Bore Size: 7 7/8

ID-2 3/8

Surface Choke: 1"

Test Tool: 33.57 FT

Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 57

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 20 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 32 FT

ID-3 1/4

Change Over: .5 FT

Perforations: (below): 3 FT

4 1/2-FH

**Operation:**

Uploading recovery &
pressures

**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
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State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
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DATE

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25

2023

DST #1

**Formation:
Mississippi**

**Test Interval: 4970 -
5027'**

Total Depth: 5027'

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25 Time Off Bottom: 06:37 05/25

Mud Properties

Mud Type: Chem

Weight: 9.4

Viscosity: 53

Filtrate: 8.8

Chlorides: 3900 ppm

**Operation:**

Uploading recovery &
pressures

**Company: Edison Operating
Company, LLC
Lease: Karl #1-11**

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

DATE

May

25

2023

DST #1**Formation:
Mississippi****Test Interval: 4970 -
5027'****Total Depth: 5027'**

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25 Time Off Bottom: 06:37 05/25

Gas Volume Report**1st Open**

Time	Orifice	PSI	MCF/D
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2nd Open

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



**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May
25
2023

DST #2

**Formation:
Mississippian**

**Test Interval: 5036 -
5074'**

Total Depth: 5074'

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25

Time Off Bottom: 01:27 05/26

Electronic Volume
Estimate:

261'

1st Open

Minutes: 10

Current Reading:

3.0" at 10 min

Max Reading: 3.0"

1st Close

Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open

Minutes: 45

Current Reading:

9.3" at 45 min

Max Reading: 9.3"

2nd Close

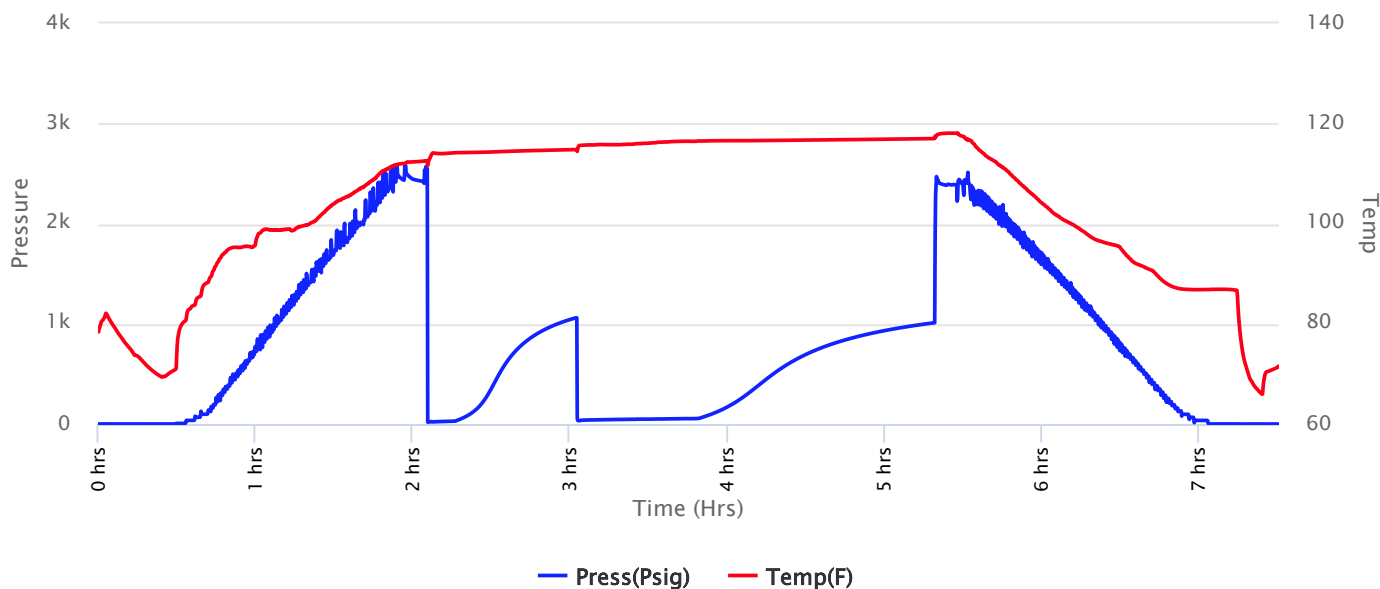
Minutes: 90

Current Reading:

0" at 90 min

Max Reading: 0"

Inside Recorder





**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May
25
2023

DST #2

**Formation:
Mississippian**

**Test Interval: 5036 -
5074'** **Total Depth: 5074'**

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25

Time Off Bottom: 01:27 05/26

Recovered

<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
308	2.42578735	G	100	0	0	0
64	0.35072	SLOCM	0	1	0	99

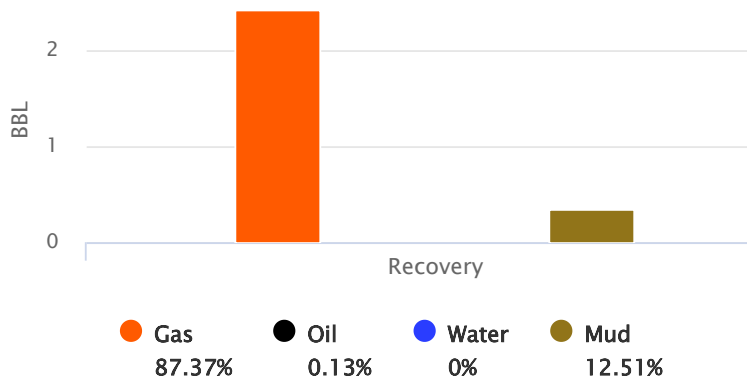
Total Recovered: 372 ft

Total Barrels Recovered: 2.77650735

Reversed Out
NO

Initial Hydrostatic Pressure	2542	PSI
Initial Flow	22 to 30	PSI
Initial Closed in Pressure	1061	PSI
Final Flow Pressure	37 to 56	PSI
Final Closed in Pressure	1010	PSI
Final Hydrostatic Pressure	2402	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	4.8	%

Recovery at a glance



GIP cubic foot volume: 13.61958

**Operation:**

Uploading recovery &
pressures

Company: Edison Operating Company, LLC

Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

DATE

May
25
2023

DST #2

Formation:
Mississippian

Test Interval: 5036 - Total Depth: 5074'
5074'

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25 Time Off Bottom: 01:27 05/26

BUCKET MEASUREMENT:

1st Open: WSB built to 3.0 inches in 10 minutes

1st Close: No blowback

2nd Open: WSB built to 9.3 inches in 45 minutes

2nd Close: No blowback

REMARKS:

Tool Sample: 0% Gas 10% Oil 12% Water 78% Mud



**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May
25
2023

DST #2

Formation:
Mississippian

**Test Interval: 5036 -
5074'**

Total Depth: 5074'

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25 Time Off Bottom: 01:27 05/26

Down Hole Makeup

Heads Up: 24.8 FT

Packer 1: 5031 FT

Drill Pipe: 4810.58 FT
ID-3 1/4

Packer 2: 5036 FT

Weight Pipe: FT
ID-2 7/8

Top Recorder: 5020.42 FT

Collars: 217.65 FT
ID-2 3/8

Bottom Recorder: 5038 FT

Test Tool: 33.57 FT
ID-3 1/2-FH
Jars
Safety Joint

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

Total Anchor: 38

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/4

Change Over: FT

Perforations: (below): 37 FT
4 1/2-FH

**Operation:**

Uploading recovery &
pressures

**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

DATE

May

25

2023

DST #2

**Formation:
Mississippian**

**Test Interval: 5036 -
5074'**

Total Depth: 5074'

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25 Time Off Bottom: 01:27 05/26

Mud Properties

Mud Type: Chem

Weight: 9.4

Viscosity: 48

Filtrate: 9.2

Chlorides: 4100 ppm

**Operation:**

Uploading recovery &
pressures

**Company: Edison Operating
Company, LLC
Lease: Karl #1-11**

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

DATE

May

25

2023

DST #2**Formation:
Mississippian****Test Interval: 5036 -
5074'****Total Depth: 5074'**

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25 Time Off Bottom: 01:27 05/26

Gas Volume Report**1st Open**

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

2nd Open

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



Company: Edison Operating Company, LLC

Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery & pressures

DATE

May
28
2023

DST #4

Formation: Viola

Test Interval: 5364 - 5422'

Total Depth: 5422'

Time On: 00:03 05/28

Time Off: 08:05 05/28

Time On Bottom: 02:26 05/28

Time Off Bottom: 05:36 05/28

Electronic Volume Estimate:

26'

1st Open

Minutes: 10

Current Reading:

1.0" at 10 min

Max Reading: 1.0"

1st Close

Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open

Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

2nd Close

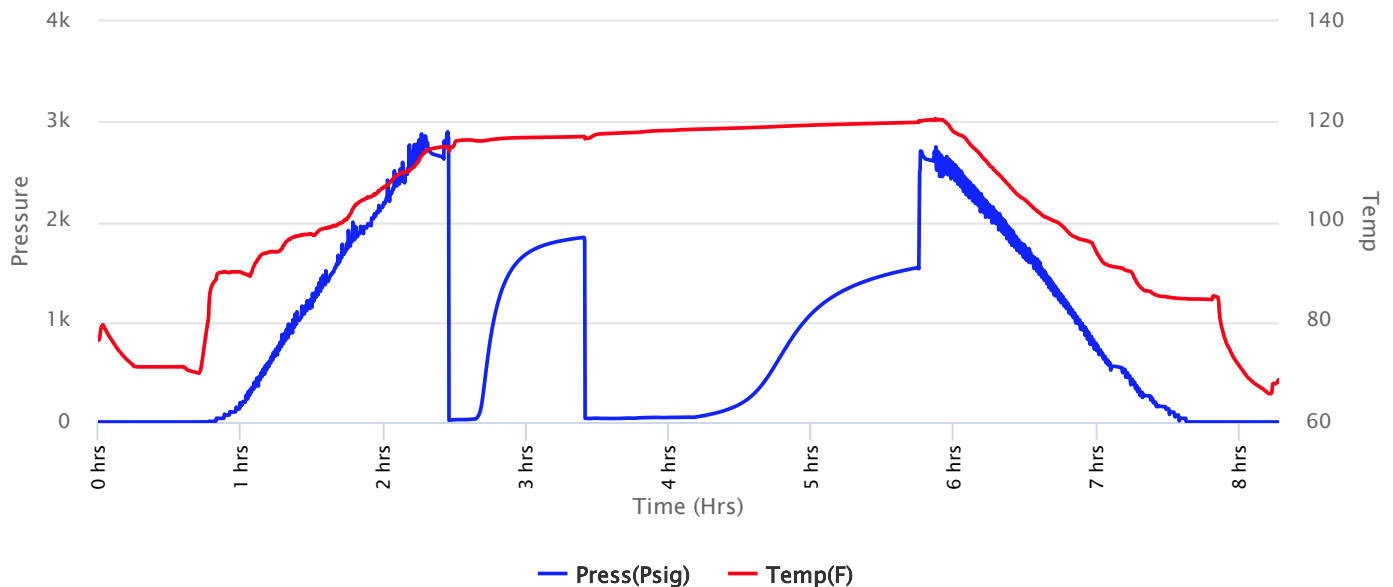
Minutes: 90

Current Reading:

0" at 90 min

Max Reading: 0"

Inside Recorder





**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May

28

2023

DST #4

Formation: Viola

**Test Interval: 5364 -
5422'**

Total Depth: 5422'

Time On: 00:03 05/28

Time Off: 08:05 05/28

Time On Bottom: 02:26 05/28

Time Off Bottom: 05:36 05/28

Recovered

Foot

BBLS

63

0.34524

Description of Fluid

M

Gas %

0

Oil %

0

Water %

0

Mud %

100

Total Recovered: 63 ft

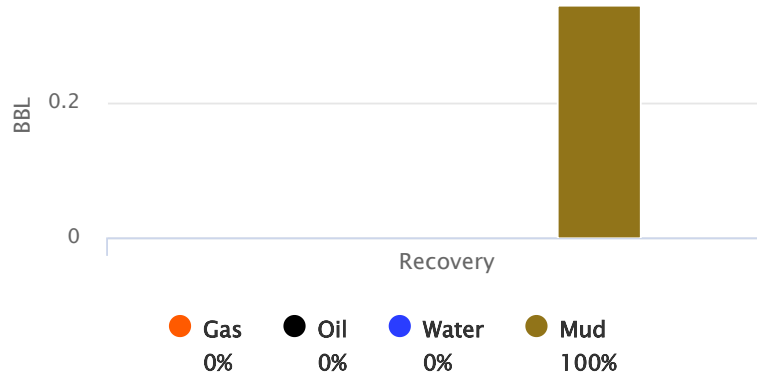
Total Barrels Recovered: 0.34524

Reversed Out

NO

Recovery at a glance

Initial Hydrostatic Pressure	2839	PSI
Initial Flow	19 to 31	PSI
Initial Closed in Pressure	1844	PSI
Final Flow Pressure	38 to 49	PSI
Final Closed in Pressure	1544	PSI
Final Hydrostatic Pressure	2706	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	16.3	%



GIP cubic foot volume: 0

**Operation:**

Uploading recovery &
pressures

Company: Edison Operating Company, LLC

Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

DATE

May
28
2023

DST #4**Formation: Viola****Test Interval: 5364 -
5422'****Total Depth: 5422'**

Time On: 00:03 05/28

Time Off: 08:05 05/28

Time On Bottom: 02:26 05/28

Time Off Bottom: 05:36 05/28

BUCKET MEASUREMENT:

1st Open: WSB built to 1.0 inch in 10 minutes

1st Close: No blowback

2nd Open: No blow

2nd Close: No blowback

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

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County: COMANCHE
State: Kansas
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Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
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API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May
28
2023

DST #4 **Formation: Viola** **Test Interval: 5364 - 5422'** **Total Depth: 5422'**
Time On: 00:03 05/28 Time Off: 08:05 05/28
Time On Bottom: 02:26 05/28 Time Off Bottom: 05:36 05/28

Down Hole Makeup

Heads Up: 15.8 FT

Packer 1: 5359 FT

Drill Pipe: 5129.58 FT
ID-3 1/4

Packer 2: 5364 FT

Weight Pipe: FT
ID-2 7/8

Top Recorder: 5348.42 FT

Collars: 217.65 FT
ID-2 3/8

Bottom Recorder: 5420 FT

Test Tool: 33.57 FT
ID-3 1/2-FH
Jars
Safety Joint

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

Total Anchor: 58

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 22 FT
4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 31 FT
ID-3 1/4

Change Over: .5 FT

Perforations: (below): 3 FT
4 1/2-FH

**Operation:**

Uploading recovery &
pressures

DATE

May

28

2023

**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

DST #4**Formation: Viola****Test Interval: 5364 -
5422'****Total Depth: 5422'**

Time On: 00:03 05/28

Time Off: 08:05 05/28

Time On Bottom: 02:26 05/28 Time Off Bottom: 05:36 05/28

Mud Properties**Mud Type:** Chem**Weight:** 9.4**Viscosity:** 52**Filtrate:** 9.2**Chlorides:** 5100 ppm

**Operation:**

Uploading recovery &
pressures

**Company: Edison Operating
Company, LLC
Lease: Karl #1-11**

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
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DATE

May
28
2023

DST #4**Formation: Viola****Test Interval: 5364 -
5422'****Total Depth: 5422'**

Time On: 00:03 05/28

Time Off: 08:05 05/28

Time On Bottom: 02:26 05/28

Time Off Bottom: 05:36 05/28

Gas Volume Report**1st Open**

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

2nd Open

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



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.

ftv: 16-2022/08/12
mply: 399-2023/05/25



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: 5/20/2023
Invoice #: 0368625
Lease Name: Karl
Well #: 1-11 (New)
County: Comanche, Ks
Job Number: WP4289
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-CON	250.000	25.000	6,250.00
Cement Class A	200.000	20.000	4,000.00
Calcium Chloride	1,081.000	0.750	810.75
Cello Flake	115.000	1.750	201.25
Guide Shoe Reg 8 5/8"	1.000	600.000	600.00
8 5/8" Alum Baffle plate SI	1.000	150.000	150.00
8 5/8" Top rubber plug	1.000	175.000	175.00
8 5/8" Cementing basket	1.000	500.000	500.00
Light Eq Mileage	50.000	2.000	100.00
Heavy Eq Mileage	100.000	4.000	400.00
Ton Mileage	1,058.000	1.500	1,587.00
Cement Blending & Mixing	450.000	1.400	630.00
Depth Charge 501'-1000'	1.000	1,250.000	1,250.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Plug Container	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Cement For 8 5/8" CSN
9232

4/6/5

Total 17,429.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/4% 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!

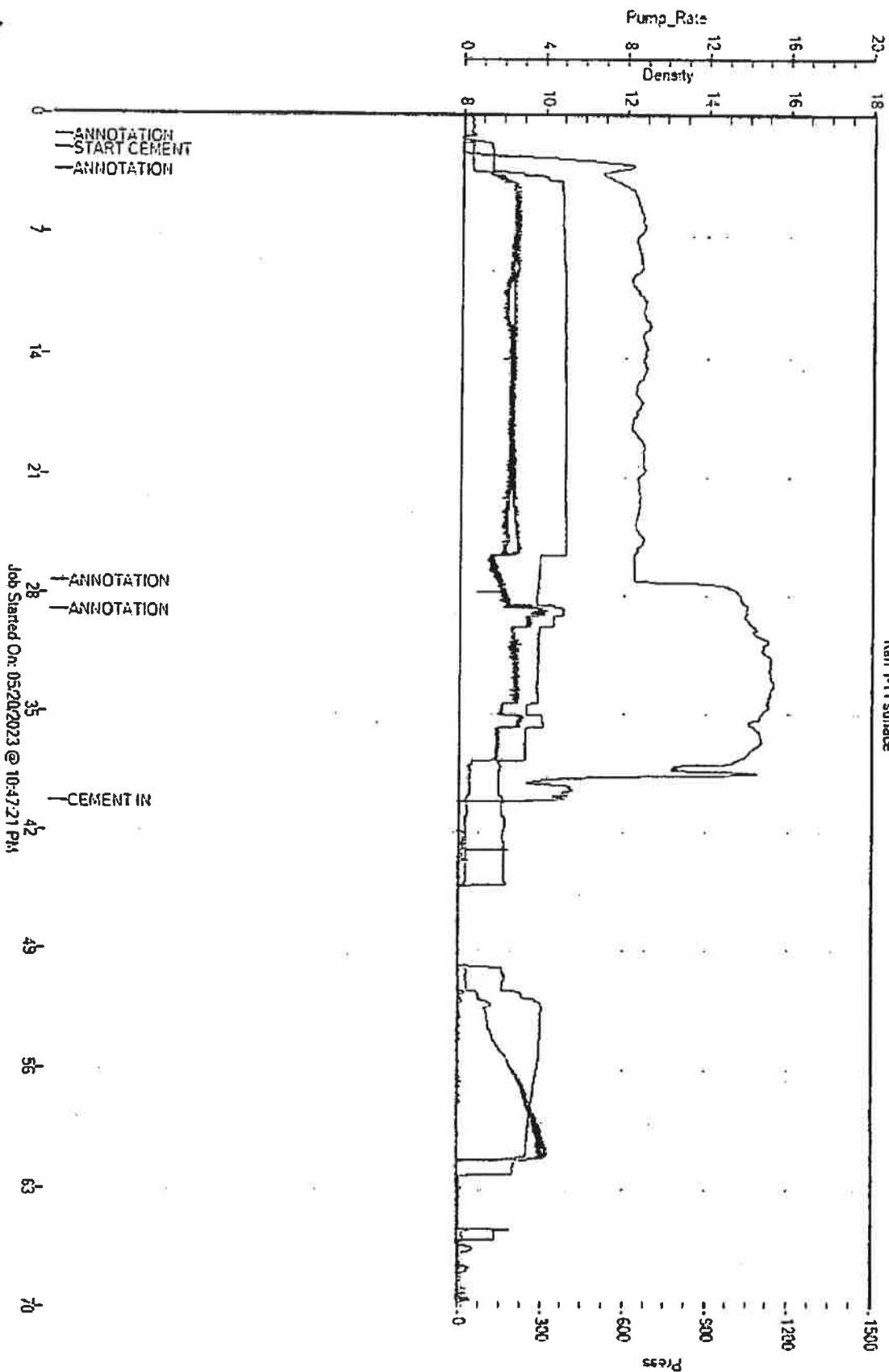


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CUSTOMER AUTHORIZATION SIGNATURE

Rev: 15-2021/01/25
mp/v: 397-2023/05/19

Edison Operating Karl 1-11 surface





EDISON OPERATING COMPANY_{LLC}

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

Well Name: Karl #1-11
API: API # 15-033-21798-0000
Location: Section 11-T31S-R18W Comanche Co., Kansas
License Number: Region: Alford
Spud Date: 5/18/2023 Drilling Completed: 5/28/2023
Surface Coordinates: 472' FNL & 1050' FWL
(3-D Location)
Bottom Hole
Coordinates:
Ground Elevation (ft): 2124' K.B. Elevation (ft): 2135'
Logged Interval (ft): 4000' To: 5500' Total Depth (ft): 5500'
Formation: TD - Viola
Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

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

OPERATOR

Company: Edison Operating Company, LLC
Address: 8100 E. 22nd St. N.
Building 1900
Wichita, KS 67226

GEOLOGIST

Name: Derek W. Patterson
Company: Edison Operating Company, LLC
Address: 8100 E. 22nd St. N.
Building 1900
Wichita, KS 67226

REMARKS

After review of the geologic log, DST results, and the open hole electric logs for the Karl #1-11, it was decided upon by operator to plug & abandon said well as a dry hole.

Note: Geolog curves, circulation points, and DST intervals have been shifted 3' shallow to correspond with the electric log curves.

The well samples were saved and submitted to the Well Sample Library in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

GENERAL INFORMATION

Service Companies

Drilling Contractor: Sterling Drilling - Rig #4
Tool Pusher: Lanny Saloga/Juan Chavez
Daylight Driller: Ivan Chavez
Evening Driller: Jose Munoz
Morning Driller: Jorge Guterrez

Gas Detector: Rig Provided

Engineer: n/a

Unit: n/a

Operational By: Surface

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

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

Testing Company: Diamond Testing Inc.
Tester: Everett Urban

Deviation Survey

Depth	Survey
1300'	0.1°
3402'	0.2°
5500'	1.0°

Pipe Strap

Depth	Pipe Strap
4900'	0.59' Short to Board

Bit Record

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	JZ	HA-417	7051139	0	1112	1112	12.75
2	7 7/8	New Orvil	W-516 PDC	20518	1112	4900	3788	59
2	7 7/8	JZ	H27	-	4900	5500	600	36

Surface Casing

5.20.2023 Ran 21 joints of new 23# 8 5/8" surface casing, tallying 885.32', set @ 898' KB.
Cemented w/ 250 sacks H-CON, 3% cc 1/4# floccell, tailed in w/ 200 sacks A, 2% cc 1/4# floccell.
Cement did circulate, w/ 35 sacks to pit.
Plug down @ 0100 hrs 5.20.23. By Hurricane Services Inc.

Well Plugging Info

5.29.2023 Plugged well w/ heavy mud to 1,050', then 1st 50 sack plug @ 1,050, 2nd 50 sack plug @ 300', 3rd 20 sack plug @ 60'. Plugged Rathole w/ 30 sacks and Mousehole w/ 20 sacks.
170 total sacks for plugging job using 60/40 Poz, 4% Gel.
Job completed @ 1430 hrs 5.29.23. By Hurricane Services Inc.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
5.23.2023	4256'	Drilling and connections upper beds. Geologist Derek W. Patterson on location @ 2030 hrs 5.22.23. Drilling and connections upper Pennsylvanian beds, Topeka, Heebner, and into Douglas. Drilling and connections Douglas. Made 1090' over past 24 hrs. WOB: 14-16k RPM: 95+ PP: 950 SPM: 65 DMC: \$2,005.35 CMC: \$14,872.18
5.24.2023	4900'	Drilling and connections Douglas. CFS @ 4390' (Douglas). Resume drilling and connections Douglas, Brown Lime, and into Lansing-Kansas City. Drilling and connections Lansing-Kansas City, Base Kansas City, and into Marmaton. Drilling and connections Marmaton, Altamont, and Pawnee. Stop @ 4900' for bit trip. CTCH, conduct 15 stand short trip, CTCH. TOH for bit trip. Made 644' over past 24 hrs. WOB: 14-16k RPM: 95+ PP: 1140 SPM: 65 DMC: \$3,774.42 CMC: \$18,646.60
5.25.2023	5027'	Conduct bit trip @ 4900'. CTCH, resume drilling and connections following bit trip 1145 hrs 5.24.23. Drilling and connections Pawnee, Fort Scott, Cherokee, and into Mississippian. CFS @ 5027' (Miss). Shows warrant test. CTCH, TOH for DST #1. Rig up Diamond Testing. TIH with tool. Conduct DST #1. Made 127' over past 24 hrs. WOB: 14-16k RPM: 95+ PP: 1150 SPM: 65 DMC: \$3,376.51 CMC: \$22,023.11
5.26.2023	5074'	Conduct DST #1, test successful. TIH with bit, CTCH, resume drilling and connections following DST #1 1255 hrs 5.25.23. Drilling and connections Mississippian. CFS @ 5074' (Miss). Resume drilling and connections Mississippian. CFS @ 5074' (Miss). Shows warrant test. TOH for DST #2. TIH with tool. Conduct DST #2, test successful. TIH with bit, CTCH. Made 47' over past 24 hrs. WOB: 40k RPM: 60 PP: 1100 SPM: 65 DMC: \$1,784.61 CMC: \$23,807.72
5.27.2023	5422'	CTCH. Resume drilling and connections following DST #2 0720 hrs 5.26.23. Drilling and connections Mississppian, Kinderhook, and into Viola. CFS @ 5422' (Viola) Made 348' over past 24 hrs. WOB: 40k RPM: 60 PP: 1100 SPM: 65 DMC: \$1,920.45 CMC: \$25,728.17
5.28.2023	5422'	CFS @ 5422' (Viola). Shows warrant test. Conduct 10 stand short trip, CTCH, TOH for DST #3. DST #3 misrun due to tool opening prematurely. TOH with tool. TIH with bit, CTCH, TOH for DST #4. Conduct DST #4. Made 0' over past 24 hrs. WOB: 40k RPM: 60 PP: 1100 SPM: 65 DMC: \$608.24 CMC: \$26,336.41
5.29.2023	RTD - 5500' LTD - 5498'	Conduct DST #4, test successful. TIH with bit, CTCH. Resume drilling and connections following DST #4 1330 hrs 5.28.23. Drilling Viola. CFS @ 5440' (Viola). Resume drilling and connections Viola ahead to RTD of 5500'. RTD reached 1940 hrs 5.28.23. CTCH, drop survey, TOH for open hole logs. Rig up Eli Wireline. Conduct open hole logging operations. Orders received to Plug & Abandon the Karl #1-11 as a dry hole. Geologist Derek W. Patterson off location @ 0540 hrs 5.29.23. Made 78' over past 24 hrs. WOB: 40k RPM: 60 PP: 1100 SPM: 65 DMC: \$104.02 CMC: \$26,440.43

WELL COMPARISON SHEET

Formation	Drilling Well				Comparison Well				Comparison Well				Comparison Well			
	Edison Operating - Karl #1-11				NOVY (Brown) - Toothaker #2				Bird Energy - Boisseau #1-11				Anadarko - Uhl 'A' #1			
	Sec. 11 - T31S - R18W 472' FNL & 1050' FWL 2124 GL 2135 KB				Sec. 2 - T31W - R18W SE SW Oil/Gas - Miss 2174 KB				Sec. 11 - T31S - R18W NW NE Gas - Douglas 2107 KB				Sec. 11 - T31S - R18W 1980' FNL & 1830' FWL Gas - Miss 2133 GL			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	4191	-2056	4188	-2053	4228	-2054	-2	1	4166	-2059	3	6	4196	-2063	7	10
Toronto	4208	-2073	4205	-2070	4247	-2073	0	3	4178	-2071	-2	1	4212	-2079	6	9
Douglas	4222	-2087	4218	-2083	4260	-2086	-1	3	4192	-2085	-2	2	4228	-2095	8	12
Brown Lime	4357	-2222	4354	-2219	4392	-2218	-4	-1	4332	-2225	3	6	4363	-2230	8	11
Lansing-Kansas City	4372	-2237	4368	-2233	4407	-2233	-4	0	4347	-2240	3	7	4377	-2244	7	11
LKC 'B'	4400	-2265	4397	-2262	4437	-2263	-2	1	4374	-2267	2	5	4407	-2274	9	12
LKC 'D'	4432	-2297	4428	-2293	4470	-2296	-1	3	4407	-2300	3	7	4440	-2307	10	14
LKC 'F'	4472	-2337	4468	-2333	4510	-2336	-1	3	4447	-2340	3	7	4478	-2345	8	12
LKC 'G'	4486	-2351	4485	-2350	4528	-2354	3	4	4464	-2357	6	7	4498	-2365	14	15
Muncie Creek	4541	-2406	4537	-2402	4580	-2406	0	4	4519	-2412	6	10	4548	-2415	9	13
LKC 'H'	4546	-2411	4542	-2407	4586	-2412	1	5	4524	-2417	6	10	4553	-2420	9	13
LKC 'I'	4571	-2436	4567	-2432	4609	-2435	-1	3	4550	-2443	7	11	4579	-2446	10	14
LKC 'J'	4596	-2461	4592	-2457	4635	-2461	0	4	4576	-2469	8	12	4606	-2473	12	16
Stark	4639	-2504	4636	-2501	4676	-2502	-2	1	4618	-2511	7	10	4647	-2514	10	13
LKC 'K'	4641	-2506	4638	-2503	4680	-2506	0	3	4621	-2514	8	11	4650	-2517	11	14
Hushpuckney	4690	-2555	4687	-2552	4727	-2553	-2	1	4669	-2562	7	10	4699	-2566	11	14
LKC 'L'	4700	-2565	4697	-2562	4742	-2568	3	6	4686	-2579	14	17	4716	-2583	18	21
Base Kansas City	4790	-2655	4786	-2651	4827	-2653	-2	2	4769	-2662	7	11	4799	-2666	11	15
Marmaton	4804	-2669	4801	-2666	4840	-2666	-3	0	4783	-2676	7	10	4820	-2687	18	21
Altamont	4858	-2723	4854	-2719	4892	-2718	-5	-1	4836	-2729	6	10	4870	-2737	14	18
Pawnee	4895	-2760	4892	-2757	4930	-2756	-4	-1	4875	-2768	8	11	4906	-2773	13	16
Fort Scott	4926	-2791	4924	-2789	4962	-2788	-3	-1	4906	-2799	8	10	4940	-2807	16	18
Cherokee	4932	-2797	4932	-2797	4969	-2795	-2	-2	4914	-2807	10	10	4947	-2814	17	17
Mississippian	4990	-2855	4988	-2853	5026	-2852	-3	-1	4978	-2871	16	18	5000	-2867	12	14
Kinderhook	5376	-3241	5372	-3237	DNP				DNP				DNP			
Viola	5410	-3275	5412	-3277	DNP				DNP				DNP			
Total Depth	5500	-3365	5498	-3363	5059	-2885	-480	-478	5050	-2943	-422	-420	5195	-3062	-303	-301

Geolog Curves Shifted 3' Shallow
DST Intervals Shifted 3' Shallow

Miss: 5027-5059 (-2853)-(-2885)
IP: 8 BOPD/19 MCFGD

Douglas: 4228-4231 (-2121)-(-2324)
Douglas: 4237-4239 (-2130)-(-2132)
IP: 160 MCFG

Miss: 5008-5012 (-2875)-(-2879)
Miss: 5014-5023 (-2881)-(-2890)
IP: 755 MCFGD



**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May
25
2023

DST #1

Formation:
Mississippi

Adjusted: 4967-5024'

**Test Interval: 4970 -
5027'**

Total Depth: 5027'

Time On: 00:55 05/25

Time Off: 08:40 05/25

Time On Bottom: 03:27 05/25

Time Off Bottom: 06:37 05/25

Electronic Volume
Estimate:
732'

1st Open

Minutes: 10

Current Reading:

22.8" at 10 min

Max Reading: 22.8"

1st Close

Minutes: 45

Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open

Minutes: 45

Current Reading:

26.8" at 45 min

Max Reading: 26.8"

2nd Close

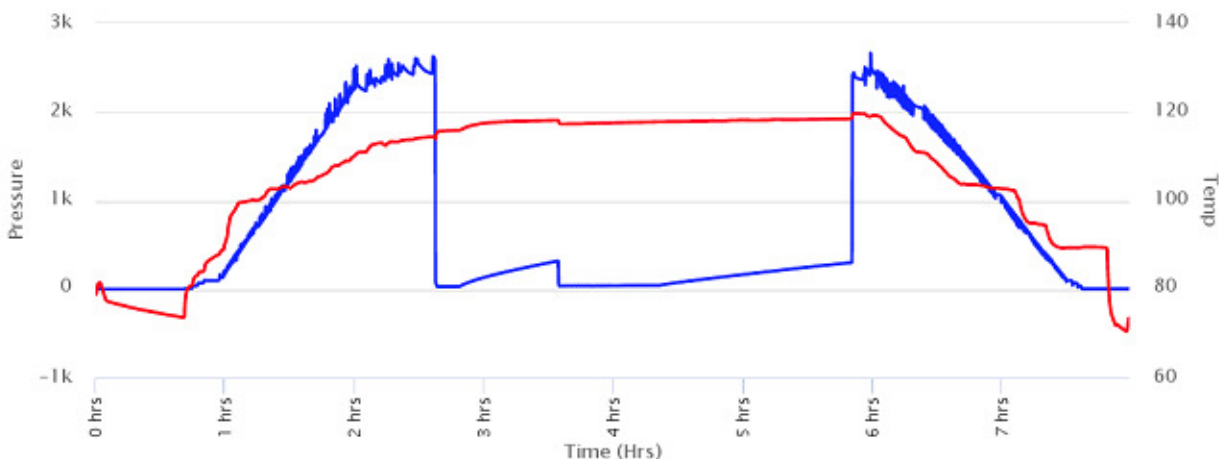
Minutes: 90

Current Reading:

0" at 90 min

Max Reading: 0"

Inside Recorder



— Press(Psig) — Temp(F)

Recovered

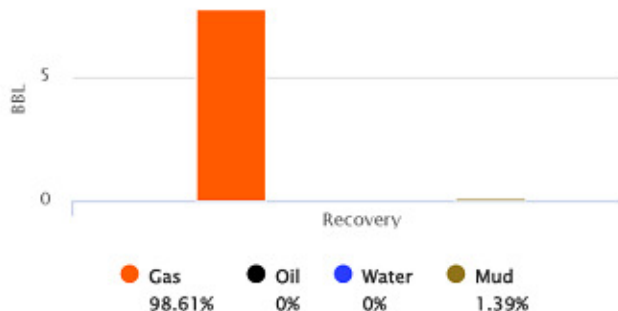
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
862	7.76648402	G	100	0	0	0
20	0.1096	M	0	0	0	100

Total Recovered: 882 ft

Total Barrels Recovered: 7.87608402

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2582	PSI
Initial Flow	28 to 30	PSI
Initial Closed in Pressure	316	PSI
Final Flow Pressure	37 to 41	PSI
Final Closed in Pressure	301	PSI
Final Hydrostatic Pressure	2370	PSI
Temperature	119	°F

Pressure Change Initial
Close / Final Close 5.0 %

GIP cubic foot volume: 43.60492



**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

Uploading recovery &
pressures

DATE

May
25
2023

DST #2

Formation:
Mississippian

Adjusted: 5033-5071'

**Test Interval: 5036 -
5074'**

Total Depth: 5074'

Time On: 20:15 05/25

Time Off: 03:33 05/26

Time On Bottom: 22:17 05/25

Time Off Bottom: 01:27 05/26

Electronic Volume
Estimate:
261'

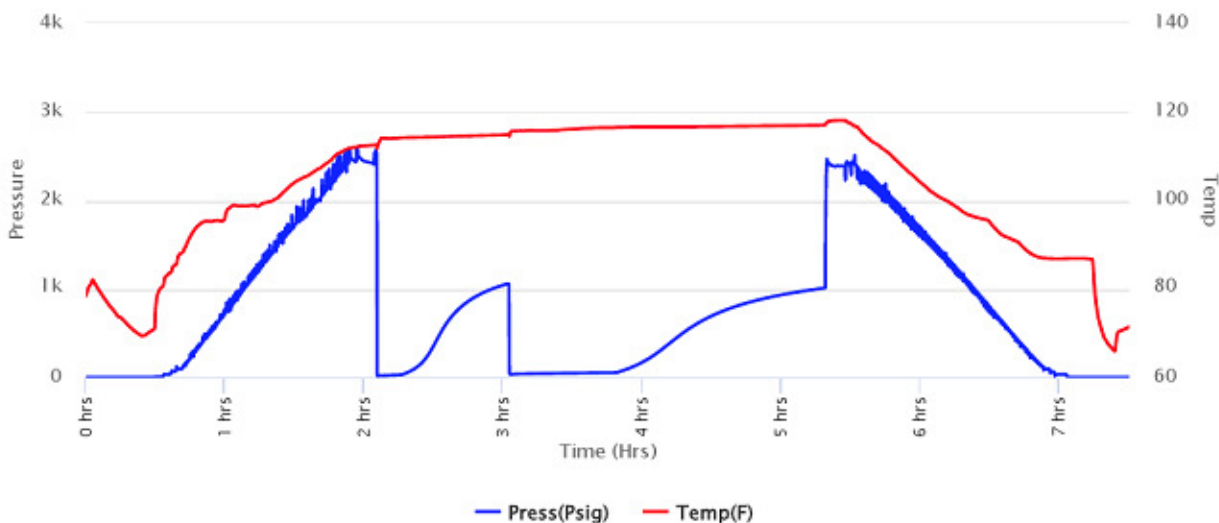
1st Open
Minutes: 10
Current Reading:
3.0" at 10 min
Max Reading: 3.0"

1st Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

2nd Open
Minutes: 45
Current Reading:
9.3" at 45 min
Max Reading: 9.3"

2nd Close
Minutes: 90
Current Reading:
0" at 90 min
Max Reading: 0"

Inside Recorder



Recovered

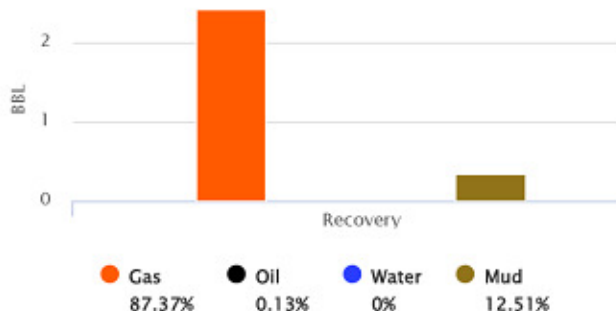
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
308	2.42578735	G	100	0	0	0
64	0.35072	SLOCM	0	1	0	99

Total Recovered: 372 ft

Total Barrels Recovered: 2.77650735

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2542	PSI
Initial Flow	22 to 30	PSI
Initial Closed in Pressure	1061	PSI
Final Flow Pressure	37 to 56	PSI
Final Closed in Pressure	1010	PSI
Final Hydrostatic Pressure	2402	PSI
Temperature	117	°F

Pressure Change Initial
Close / Final Close 4.8 %

GIP cubic foot volume: 13.61958



**Company: Edison Operating
Company, LLC**
Lease: Karl #1-11

SEC: 11 TWN: 31S RNG: 18W
County: COMANCHE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig 5
Elevation: 2119 GL
Field Name: Alford
Pool: Infield
Job Number: 669
API #: 15-033-21798

Operation:

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pressures

DATE

May
28
2023

DST #4 **Formation: Viola** **Test Interval: 5364 - 5422'** **Total Depth: 5422'**
Time On: 00:03 05/28 Time Off: 08:05 05/28
Time On Bottom: 02:26 05/28 Time Off Bottom: 05:36 05/28

Adjusted: 5361-5419'

Electronic Volume
Estimate:
26'

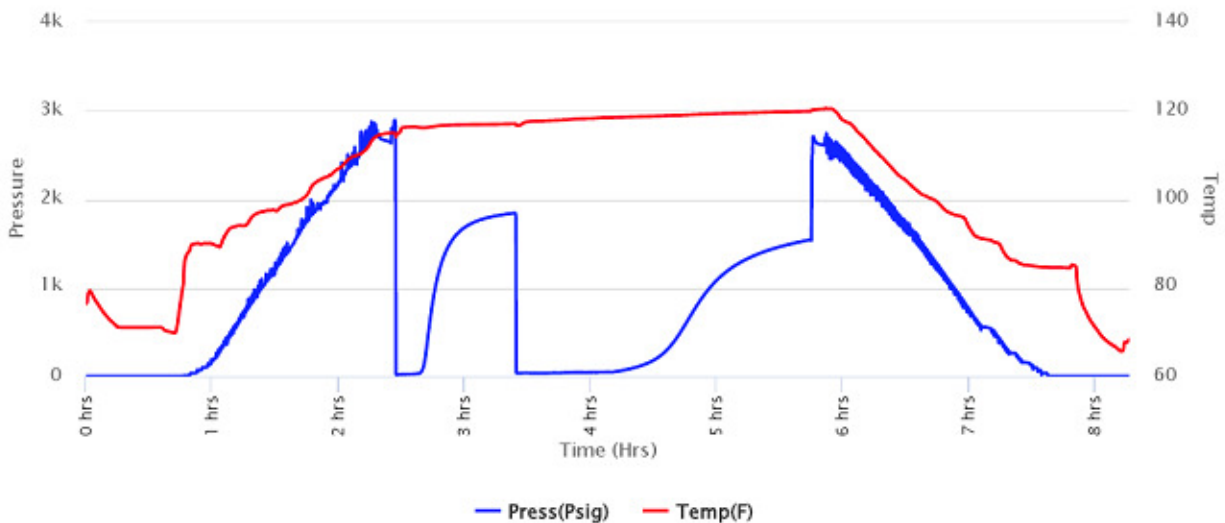
1st Open
Minutes: 10
Current Reading:
1.0" at 10 min
Max Reading: 1.0"

1st Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

2nd Open
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

2nd Close
Minutes: 90
Current Reading:
0" at 90 min
Max Reading: 0"

Inside Recorder



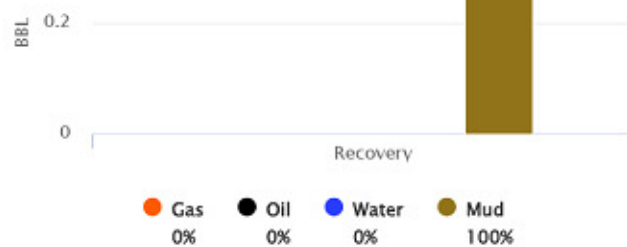
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
63	0.34524	M	0	0	0	100

Total Recovered: 63 ft
Total Barrels Recovered: 0.34524

Reversed Out
NO

Recovery at a glance

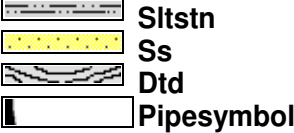
Initial Hydrostatic Pressure	2839	PSI
Initial Flow	19 to 31	PSI
Initial Closed in Pressure	1844	PSI
Final Flow Pressure	38 to 49	PSI
Final Closed in Pressure	1544	PSI
Final Hydrostatic Pressure	2706	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	16.3	%



GIP cubic foot volume: 0

ROCK TYPES

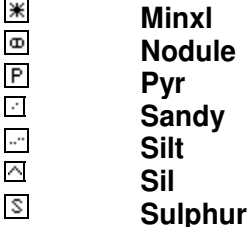
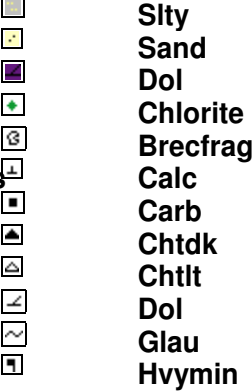
LITHOLOGY



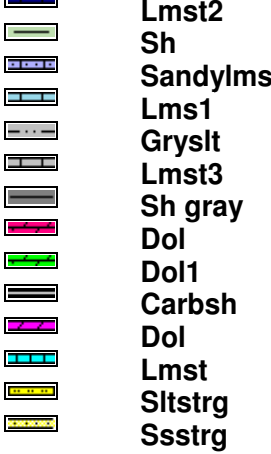
FOSSIL



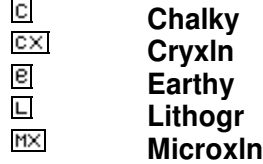
MINERAL



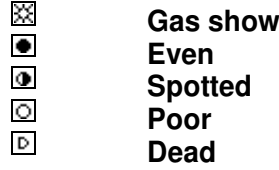
STRINGER



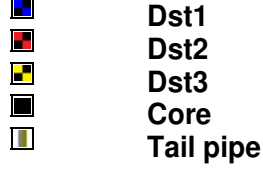
TEXTURE



OIL SHOW



INTERVAL



EVENT

