KOLAR Document ID: 1575843

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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from  North / South Line of Section
City: State: Zip: +	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date  Recompletion Date	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:

KOLAR Document ID: 1575843

#### Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	Type of Cement # Sacks Used Type and Percent Ac			Percent Additives		
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a     Does the volume     Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion			
Operator	dison Operating Company LLC			
Well Name	DORAN UNIT 1-16			
Doc ID	1575843			

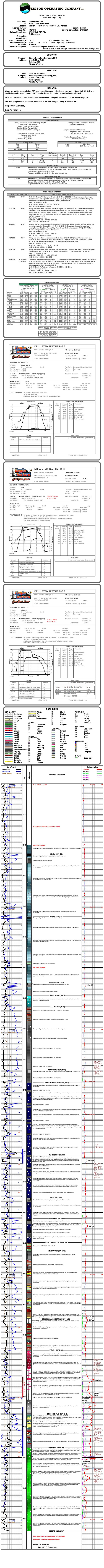
## All Electric Logs Run

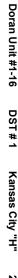
DUCP
DUAL INDUCTION
MICRO
SONIC

Form	ACO1 - Well Completion				
Operator	dison Operating Company LLC				
Well Name	DORAN UNIT 1-16				
Doc ID	1575843				

## 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	367	A-CON	350	3% cc, 1/4# flocell
Production	7.875	5.5	17	4412	H- LONG/H- CON	230	cello flake







Prepared For: Edison Operating Company LLC

8100 E.22nd street North building 1900 Wichita, Kansas 67226

ATTN: Derek Patterson

#### Doran Unit #1-16

## 16-24s-14w Stafford

Start Date: 2021.05.25 @ 03:24:00 End Date: 2021.05.25 @ 09:32:00 Job Ticket #: 01467 DST #: 1

**Eagle Testers** 

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

Printed: 2021.05.25 @ 09:56:03



Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

#### 16-24s-14w Stafford

Doran Unit #1-16

Tester:

Job Ticket: 01467 **DST#:1** 

Test Start: 2021.05.25 @ 03:24:00

Gene Budig

1986.00 ft (KB)

1977.00 ft (CF)

#### **GENERAL INFORMATION:**

Formation: Kans as City "H"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 06:33:00
Time Test Ended: 09:32:00

Test Ended: 09:32:00 Unit No: 1

val: 3796.00 ft (KB) To 3820.00 ft (KB) (TVD) Reference Elevations:

Interval: 3796.00 ft (KB) To 3820.00 ft (KB) (TVD)

Total Depth: 3820.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 9119 Inside

Press@RunDepth: 46.69 psig @ 3816.00 ft (KB) Capacity: 5000.00 psig

 Start Date:
 2021.05.25
 End Date:
 2021.05.25
 Last Calib.:
 2021.05.25

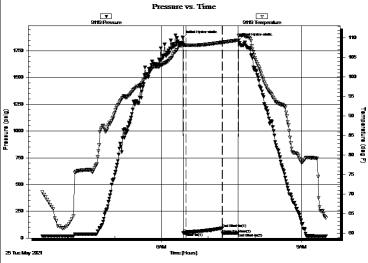
 Start Time:
 03:24:00
 End Time:
 09:31:30
 Time On Btm:
 2021.05.25 @ 06:27:30

 Time Off Btm:
 2021.05.25 @ 07:39:00

TEST COMMENT: 1st Opening 05very weak surface blow

1st Shut- In 45 Minutes

2nd Shut-In 20 Minutes no blow pulled the tool after 20 minutes



	PRESSURE SUMMARY							
1	Time	Pressure	Temp	Annotation				
	(Min.)	(psig)	(deg F)					
	0	1872.25	108.61	Initial Hydro-static				
	1	44.93	108.15	Open To Flow (1)				
	4	49.84	108.10	Shut-In(1)				
_	51	93.03	108.85	End Shut-In(1)				
a di	51	43.24	108.86	Open To Flow (2)				
Temperature (deg	71	46.69	109.41	End Shut-In(2)				
9	72	1846.11	110.50	Final Hydro-static				
J								

#### Recovery

Length (ft)	Description	Volume (bbl)		
10.00	10.00 drilling mud show between the tools			

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

Eagle Testers Ref. No: 01467 Printed: 2021.05.25 @ 09:56:03



Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

16-24s-14w Stafford

Doran Unit #1-16

Job Ticket: 01467 **DST#:1** 

Test Start: 2021.05.25 @ 03:24:00

#### **GENERAL INFORMATION:**

Formation: Kansas City "H"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 06:33:00 Tester: Gene Budig
Time Test Ended: 09:32:00 Unit No: 1

THE FOREIGN 05.52.50

Interval: 3796.00 ft (KB) To 3820.00 ft (KB) (TVD) Reference Elevations: 1986.00 ft (KB)

Total Depth: 3820.00 ft (KB) (TVD) 1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 91398 Outside

 Press@RunDepth:
 psig
 @
 3817.00 ft (KB)
 Capacity:
 5000.00 psig

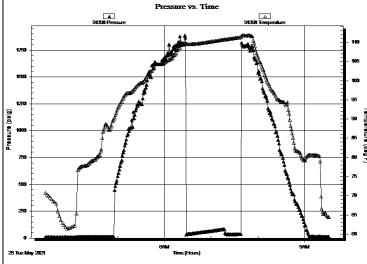
Start Date: 2021.05.25 End Date: 2021.05.25 Last Calib.: 2021.05.25

Start Time: 03:24:00 End Time: 09:31:30 Time On Btm: Time Off Btm:

TEST COMMENT: 1st Opening 05very w eak surface blow

1st Shut- In 45 Minutes

2nd Shut-In 20 Minutes no blow pulled the tool after 20 minutes



	FRESSURE SUIVIIVIART							
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation				
Temperature (deg F)								
(deg.)								

PRESSURE SUMMARY

## Recovery

Description	Volume (bbl)	
drilling mud show between the tools		
	·	

Gas Rates			
Choke (inches)	Pressure (nsig.)	Gas Rate (Mcf/d)	

Eagle Testers Ref. No: 01467 Printed: 2021.05.25 @ 09:56:04



TOOL DIAGRAM

Edison Operating Company LLC

16-24s-14w Stafford

Tool Weight:

8100 E.22nd street North building 1900 Wichita, Kansas 67226

Doran Unit #1-16

Job Ticket: 01467

ATTN: Derek Patterson

DST#: 1

2000.00 lb

Test Start: 2021.05.25 @ 03:24:00

**Tool Information** 

Drill Pipe: Length: 3791.00 ft Diameter: 3.80 inches Volume: 53.18 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 53.18 bbl

Weight set on Packer: 20000.00 lb Weight to Pull Loose: 52000.00 lb

Drill Pipe Above KB: 23.00 ft
Depth to Top Packer: 3796.00 ft
Depth to Bottom Packer: ft

Tool Chased 0.00 ft
String Weight: Initial 38000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 24.00 ft

Final 38000.00 lb

Tool Length: 52.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3773.00		
Hydraulic tool	5.00			3778.00		
Jars	6.00			3784.00		
Safety Joint	2.00		Fluid	3786.00		
Top Packer	5.00			3791.00		
Packer	5.00			3796.00	28.00	Bottom Of Top Packer
Anchor	19.00			3815.00		
Recorder	1.00	9119	Inside	3816.00		
Recorder	1.00	91398	Outside	3817.00		
Bullnose	3.00			3820.00	24.00	Anchor Tool

Total Tool Length: 52.00

Eagle Testers Ref. No: 01467 Printed: 2021.05.25 @ 09:56:04



**FLUID SUMMARY** 

Edison Operating Company LLC

16-24s-14w Stafford

8100 E.22nd street North building 1900

Doran Unit #1-16

Serial #:

Wichita, Kansas 67226

Job Ticket: 01467 DST#: 1

ATTN: Derek Patterson

Test Start: 2021.05.25 @ 03:24:00

#### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Weight: Cushion Length: ft Water Salinity: ppm

9.00 lb/gal Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 9.60 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

6000.00 ppm Salinity: Filter Cake: 1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
10.00	drilling mud show between the tools	0.140

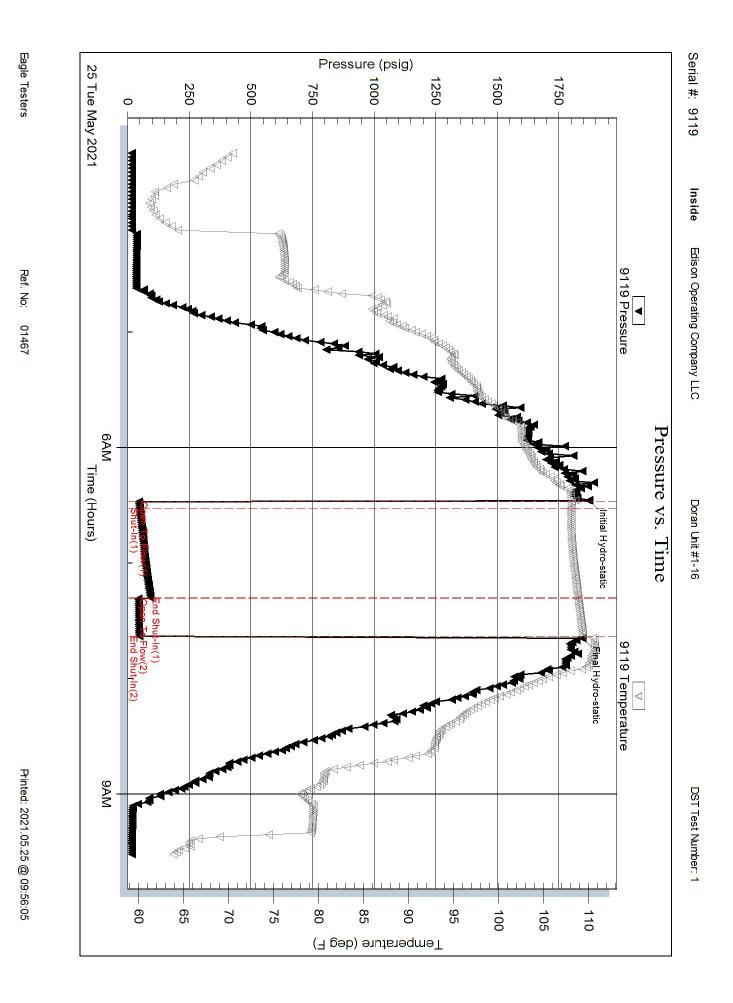
Total Length: Total Volume: 0.140 bbl 10.00 ft

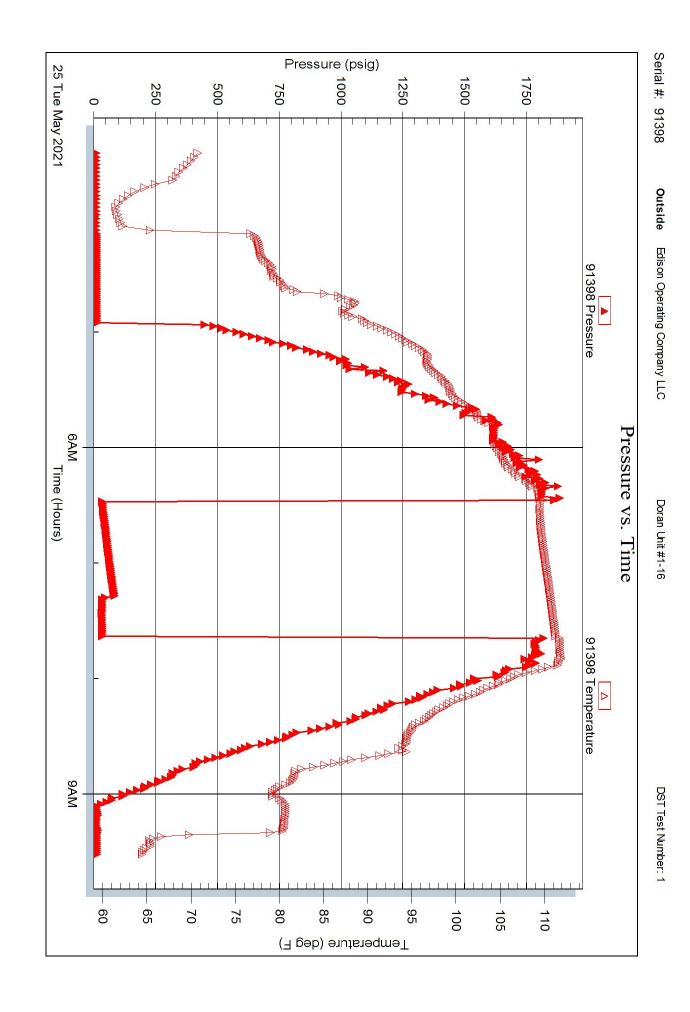
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Eagle Testers Printed: 2021.05.25 @ 09:56:04 Ref. No: 01467





Eagle Testers

Ref. No: 01467

Printed: 2021.05.25 @ 09:56:05



Prepared For: Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

#### Doran Unit #1-16

## 16-24s-14w Stafford

Start Date: 2021.05.26 @ 16:31:00 End Date: 2021.05.26 @ 00:50:00 Job Ticket #: 01468 DST #: 2

Eagle Testers

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

Printed: 2021.05.27 @ 01:15:51



Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

16-24s-14w Stafford

Doran Unit #1-16

Job Ticket: 01468 **DST#:2** 

Test Start: 2021.05.26 @ 16:31:00

#### **GENERAL INFORMATION:**

Formation: viola

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:52:00 Time Test Ended: 00:50:00

Interval: 4166.00 ft (KB) To 4200.00 ft (KB) (TVD)

Total Depth: 4200.00 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:

1986.00 ft (KB)

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 9119

Press@RunDepth: 1191.24 psig @ ft (KB) Capacity: psig

 Start Date:
 2021.05.26
 End Date:
 2021.05.27
 Last Calib.:
 1899.12.30

 Start Time:
 16:31:00
 End Time:
 00:50:00
 Time On Btm:
 2021.05.26 @ 18:51:00

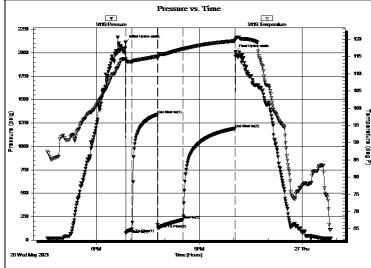
 Time Off Btm:
 2021.05.26 @ 22:03:30

TEST COMMENT: 1st opening 10 Minutes fair blow built to the bottom of a five gallon bucket in 10 minutes

1st Shut-In 45 Minutes weak surface blow back

2nd opening 45 Minutes fair blow built to the bottom of a 5 gallon bucket in 9 minutes

2nd Shut-In 90 < Minutes weak surface blow



	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2109.70	114.27	Initial Hydro-static
	1	72.42	113.68	Open To Flow (1)
	11	113.12	113.47	Shut-In(1)
,	56	1340.15	115.02	End Shut-In(1)
3	57	124.65	114.64	Open To Flow (2)
	101	218.60	117.18	Shut-In(2)
,	192	1191.24	119.51	End Shut-In(2)
9	193	2007.71	120.11	Final Hydro-static

Con Daton

PRESSURE SUMMARY

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	600 feet of gas in the pipe	0.00
10.00	Clean slightly gas cut oil	0.05
60.00	Slightly oil and gas cut mud	0.40
0.00	10%Gas 10% Oil 80% Mud	0.00
60.00	Slightly muddy water 95% Water 5% M	uc0.84
0.00	chlorides 48000	0.00

Gas Nates				
Choke (inches)	Pressure (nsig.)	Gas Rate (Mcf/d)		

Eagle Testers Ref. No: 01468 Printed: 2021.05.27 @ 01:15:51



Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

16-24s-14w Stafford

Doran Unit #1-16

Tester:

Unit No:

Job Ticket: 01468 **DST#: 2** 

Test Start: 2021.05.26 @ 16:31:00

#### **GENERAL INFORMATION:**

Formation: viola

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:52:00 Time Test Ended: 00:50:00

4166.00 ft (KB) To 4200.00 ft (KB) (TVD)

Total Depth: 4200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Reference Elevations: 19

Gene Budig

ns: 1986.00 ft (KB)

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 9139

Interval:

Press@RunDepth: 1171.60 psig @ ft (KB) Capacity: psig

 Start Date:
 2021.05.26
 End Date:
 2021.05.27
 Last Calib.:
 1899.12.30

 Start Time:
 16:31:00
 End Time:
 00:50:00
 Time On Btm:
 2021.05.26 @ 18:51:00

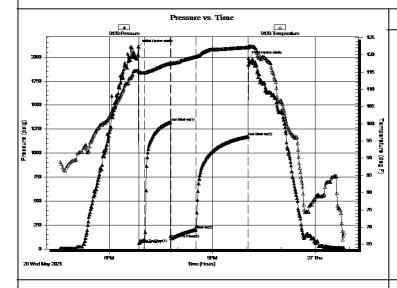
 Time Off Btm:
 2021.05.26 @ 22:03:30

TEST COMMENT: 1st opening 10 Minutes fair blow built to the bottom of a five gallon bucket in 10 minutes

1st Shut-In 45 Minutes weak surface blow back

2nd opening 45 Minutes fair blow built to the bottom of a 5 gallon bucket in 9 minutes

2nd Shut-In 90 < Minutes weak surface blow



PRESSURE S	UMMARY
------------	--------

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2109.46	115.52	Initial Hydro-static
1	60.02	115.04	Open To Flow (1)
10	96.84	114.79	Shut-In(1)
56	1322.88	117.57	End Shut-In(1)
57	107.97	117.53	Open To Flow (2)
101	203.82	119.49	Shut-In(2)
192	1171.60	122.15	End Shut-In(2)
193	1987.14	122.40	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
0.00	600 feet of gas in the pipe	0.00
10.00	Clean slightly gas cut oil	0.05
60.00	Slightly oil and gas cut mud	0.40
0.00	10%Gas 10% Oil 80% Mud	0.00
60.00	Slightly muddy water 95% Water 5% M	uc0.84
0.00	chlorides 48000	0.00

#### Gas Rates

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

Eagle Testers Ref. No: 01468 Printed: 2021.05.27 @ 01:15:51



TOOL DIAGRAM

Edison Operating Company LLC

8100 E.22nd street North building 1900 Wichita, Kansas 67226

ATTN: Derek Patterson

Doran Unit #1-16

16-24s-14w Stafford

Job Ticket: 01468 DST#:2

String Weight: Initial 42000.00 lb

Final

43000.00 lb

Test Start: 2021.05.26 @ 16:31:00

**Tool Information** 

Drill Pipe: Length: 4107.00 ft Diameter: 3.80 inches Volume: 57.61 bbl Tool Weight: 2000.00 lb 2.86 inches Volume: 0.00 bbl Heavy Wt. Pipe: Length: 0.00 ft Diameter: Weight set on Packer: 20000.00 lb Drill Collar: Length: 58.00 ft Diameter: 2.25 inches Volume: 0.29 bbl Weight to Pull Loose: 6400.00 lb Total Volume: 57.90 bbl Tool Chased 0.00 ft

Drill Pipe Above KB: 27.00 ft Depth to Top Packer: 4166.00 ft

Depth to Bottom Packer: ft Interval between Packers: 34.00 ft 62.00 ft Tool Length:

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4143.00		
Hydraulic tool	5.00			4148.00		
Jars	6.00			4154.00		
Safety Joint	2.00		Fluid	4156.00		
Top Packer	5.00			4161.00		
Packer	5.00			4166.00	28.00	Bottom Of Top Packer
Anchor	29.00			4195.00		
Recorder	1.00	9119	Inside	4196.00		
Recorder	1.00	9139	Outside	4197.00		
Bullnose	3.00			4200.00	34.00	Anchor Tool

**Total Tool Length:** 62.00

Eagle Testers Printed: 2021.05.27 @ 01:15:52 Ref. No: 01468



**FLUID SUMMARY** 

Edison Operating Company LLC

16-24s-14w Stafford

8100 E.22nd street North building 1900

Doran Unit #1-16

Serial #:

Wichita, Kansas 67226

Job Ticket: 01468 DST#:2

ATTN: Derek Patterson

Test Start: 2021.05.26 @ 16:31:00

#### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: deg API Cushion Length: Mud Weight: 9.00 lb/gal ft Water Salinity: ppm

Viscosity: 46.00 sec/qt Cushion Volume: bbl

Water Loss: 10.80 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

5000.00 ppm Salinity: Filter Cake: 1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
0.00	600 feet of gas in the pipe	0.000
10.00	Clean slightly gas cut oil	0.049
60.00	Slightly oil and gas cut mud	0.404
0.00	10%Gas 10% Oil 80% Mud	0.000
60.00	Slightly muddy w ater 95% Water 5% Mud	0.842
0.00	chlorides 48000	0.000

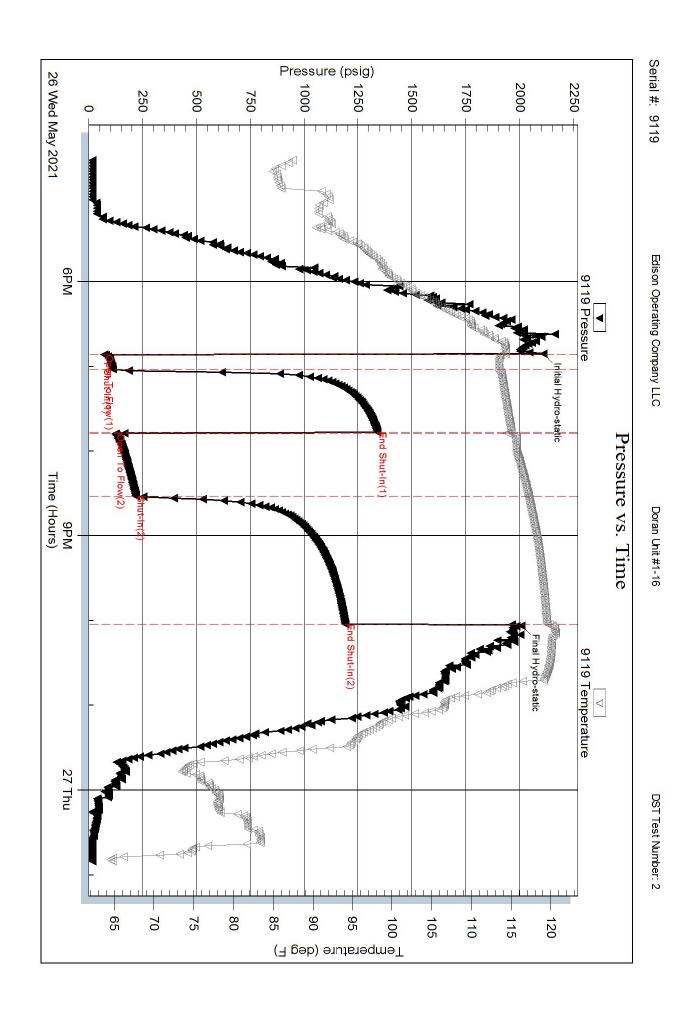
Total Length: 130.00 ft Total Volume: 1.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Eagle Testers Printed: 2021.05.27 @ 01:15:52 Ref. No: 01468

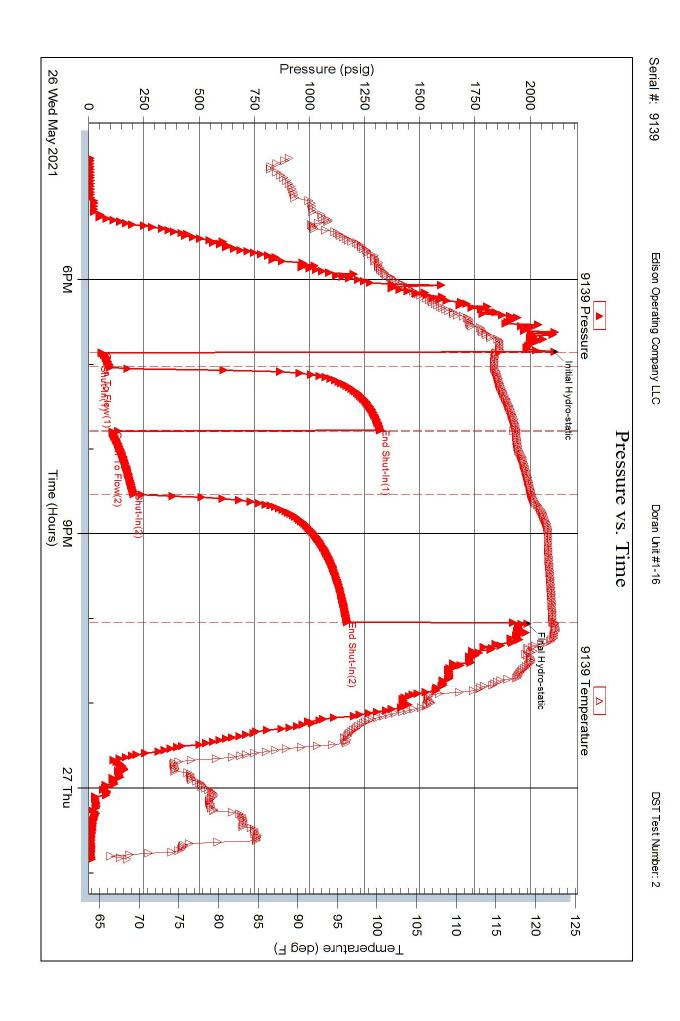


Eagle Testers

Ref. No.

01468

Printed: 2021.05.27 @ 01:15:52



Eagle Testers

Ref. No.

01468

Printed: 2021.05.27 @ 01:15:52





Prepared For: Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

#### Doran Unit #1-16

## 16-24s-14w Stafford

Start Date: 2021.05.27 @ 16:31:00 End Date: 2021.05.27 @ 00:00:00 Job Ticket #: 01469 DST #: 3

**Eagle Testers** 

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

Printed: 2021.05.28 @ 04:47:32



Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

16-24s-14w Stafford

Doran Unit #1-16

Job Ticket: 01469 **DST#:3** 

Test Start: 2021.05.27 @ 16:31:00

#### **GENERAL INFORMATION:**

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type

Time Tool Opened: 19:48:00

Time Test Ended: 00:00:00

Interval: 4216.00 ft (KB) To 4296.00 ft (KB) (TVD)

Total Depth: 4296.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig

Unit No:

Reference Elevations: 1986.00 ft (KB)

1977.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 9119

Press@RunDepth: 1538.97 psig @ ft (KB) Capacity: psig

 Start Date:
 2021.05.27
 End Date:
 2021.05.28
 Last Calib.:
 1899.12.30

 Start Time:
 16:31:00
 End Time:
 03:09:30
 Time On Btm:
 2021.05.27 @ 18:35:30

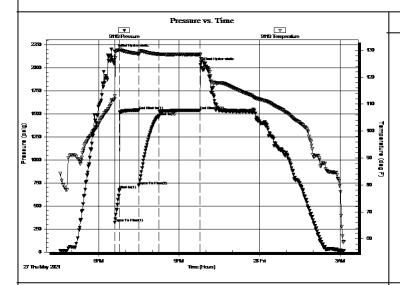
 Time Off Btm:
 2021.05.27 @ 21:47:30

TEST COMMENT: 1st Opening 10 Minutes good blow built to the bottom of a 56 gallon bucket in 1 Minute

1stShut-In 45 Minutes no blow back

2nd Opening 45 Minutes Good blow built to the bottom of a 5 gallon bucket in 1 minute

2nd Shut-In 90 Minutes no blow back



Pl	RESSUR	RE SUMMARY
Pressure	Temn	Annotation

iime	Pressure	remp	Annotation
(Min.)	(psig)	(deg F)	
0	2177.71	111.92	Initial Hydro-static
1	318.48	113.04	Open To Flow (1)
11	678.11	130.00	Shut-In(1)
54	1540.61	128.74	End Shut-In(1)
55	722.14	128.41	Open To Flow (2)
100	1475.19	128.56	Shut-In(2)
191	1538.97	128.40	End Shut-In(2)
192	2034.12	128.32	Final Hydro-static

#### Recovery

Description	Volume (bbl)
Clean Oil	0.56
slightly oiol and gas cut muddy water	2.52
5%Gas 10%oil 40%Mud 45%Water	0.00
180.00 Slightly oil cut muddy water	
0.00 15%Oil 5% mudm80%Water	
Slightly oil cut muddy water	2.52
	Clean Oil slightly oiol and gas cut muddy water 5%Gas 10%oil 40%Mud 45%Water Slightly oil cut muddy water 15%Oil 5% mudm80%Water

#### Gas Rates

Eagle Testers Ref. No: 01469 Printed: 2021.05.28 @ 04:47:32



Edison Operating Company LLC

8100 E.22nd street North building 1900

Wichita, Kansas 67226

ATTN: Derek Patterson

16-24s-14w Stafford

Doran Unit #1-16

Job Ticket: 01469 DST#: 3

Test Start: 2021.05.27 @ 16:31:00

#### **GENERAL INFORMATION:**

Formation: **Arbuckle** 

Deviated: No Test Type: Conventional Bottom Hole (Initial) Whipstock: ft (KB)

Time Tool Opened: 19:48:00 Time Test Ended: 00:00:00

1986.00 ft (KB)

Reference Elevations:

Gene Budig

Tester: Unit No:

4216.00 ft (KB) To 4296.00 ft (KB) (TVD)

4296.00 ft (KB) (TVD)

1977.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 9139

Interval:

Total Depth:

1513.06 psig @ Press@RunDepth: ft (KB) Capacity: psig

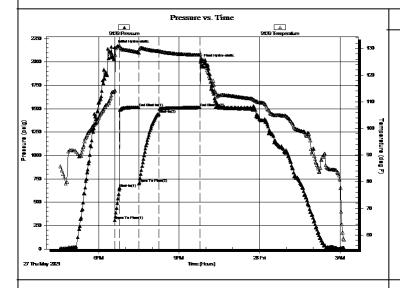
Start Date: 2021.05.27 Last Calib.: 1899.12.30 End Date: 2021.05.28 Start Time: 16:31:00 End Time: 04:22:00 Time On Btm: 2021.05.27 @ 18:35:30 Time Off Btm: 2021.05.27 @ 21:47:30

TEST COMMENT: 1st Opening 10 Minutes good blow built to the bottom of a 56 gallon bucket in 1 Minute

1stShut-In 45 Minutes no blow back

2nd Opening 45 Minutes Good blow built to the bottom of a 5 gallon bucket in 1 minute

2nd Shut-In 90 Minutes no blow back



	Pl	RESSUR	RE SUMMARY
me	Pressure	Temp	Annotation

IIIIE	riessuie	remp	Annotation
(Min.)	(psig)	(deg F)	
0	0   2156.25   114.04   Initial Hydro		Initial Hydro-static
1	311.18	114.35	Open To Flow (1)
11	654.46	130.67	Shut-In(1)
54 1515.63		128.54	End Shut-In(1)
55	703.76	128.29	Open To Flow (2)
99	1446.41	128.99	Shut-In(2)
191	1513.06	127.57	End Shut-In(2)
192	2005.34	128.07	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
40.00	Clean Oil	0.56
180.00	slightly oiol and gas cut muddy water	2.52
0.00	5%Gas 10%oil 40%Mud 45%Water	0.00
180.00	0 Slightly oil cut muddy water	
0.00	15%Oil 5% mudm80%Water	0.00
180.00	Slightly oil cut muddy water	2.52

#### Gas Rates

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

Eagle Testers Ref. No: 01469 Printed: 2021.05.28 @ 04:47:33



TOOL DIAGRAM

Edison Operating Company LLC

16-24s-14w Stafford

8100 E.22nd street North building 1900

Doran Unit #1-16

Wichita, Kansas 67226

Job Ticket: 01469 **DST#:3** 

ATTN: Derek Patterson

Test Start: 2021.05.27 @ 16:31:00

**Tool Information** 

Drill Pipe: Length: 4204.00 ft Diameter: 3.80 inches Volume: 58.97 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 56000.00 lb

Total Volume: 58.97 bbl

Weight to Pull Loose: 56000.00 lb Tool Chased 0.00 ft

String Weight: Initial 40000.00 lb

Final 42000.00 lb

Drill Pipe Above KB: 16.00 ft
Depth to Top Packer: 4216.00 ft
Depth to Bottom Packer: ft

Interval between Packers: 80.24 ft
Tool Length: 108.24 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4193.00		
Hydraulic tool	5.00			4198.00		
Jars	6.00			4204.00		
Safety Joint	2.00		Fluid	4206.00		
Top Packer	5.00			4211.00		
Packer	5.00			4216.00	28.00	Bottom Of Top Packer
Change Over Sub	0.75			4216.75		
Drill Pipe	63.74			4280.49		
Change Over Sub	0.75			4281.24		
Anchor	10.00			4291.24		
Recorder	1.00	9119	Inside	4292.24		
Recorder	1.00	9139	Outside	4293.24		
Bullnose	3.00			4296.24	80.24	Anchor Tool

Total Tool Length: 108.24

Eagle Testers Ref. No: 01469 Printed: 2021.05.28 @ 04:47:33



**FLUID SUMMARY** 

Edison Operating Company LLC

16-24s-14w Stafford

8100 E.22nd street North building 1900

Doran Unit #1-16

Wichita, Kansas 67226

Job Ticket: 01469 DST#: 3

ATTN: Derek Patterson Test Start: 2021.05.27 @ 16:31:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Cushion Length: Mud Weight: ft Water Salinity: 9.00 lb/gal ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 10.80 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

7000.00 ppm Salinity: Filter Cake: 1.00 inches

## **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
40.00	Clean Oil	0.561
180.00	slightly oiol and gas cut muddy water	2.525
0.00	5%Gas 10%oil 40%Mud 45%Water	0.000
180.00	Slightly oil cut muddy water	2.525
0.00	15%Oil 5% mudm80%Water	0.000
180.00	180.00 Slightly oil cut muddy water	
0.00	10%Oil 5%Mud 85%w ATER	0.000
180.00	SLIGHTLY OIL CUT MUDDY WATER	2.525
0.00	5%Oil 5%Mud 90%Water	0.000
2800.00	Water 3%Mud 97%Water	39.277
0.00	Chlorides 38000	0.000

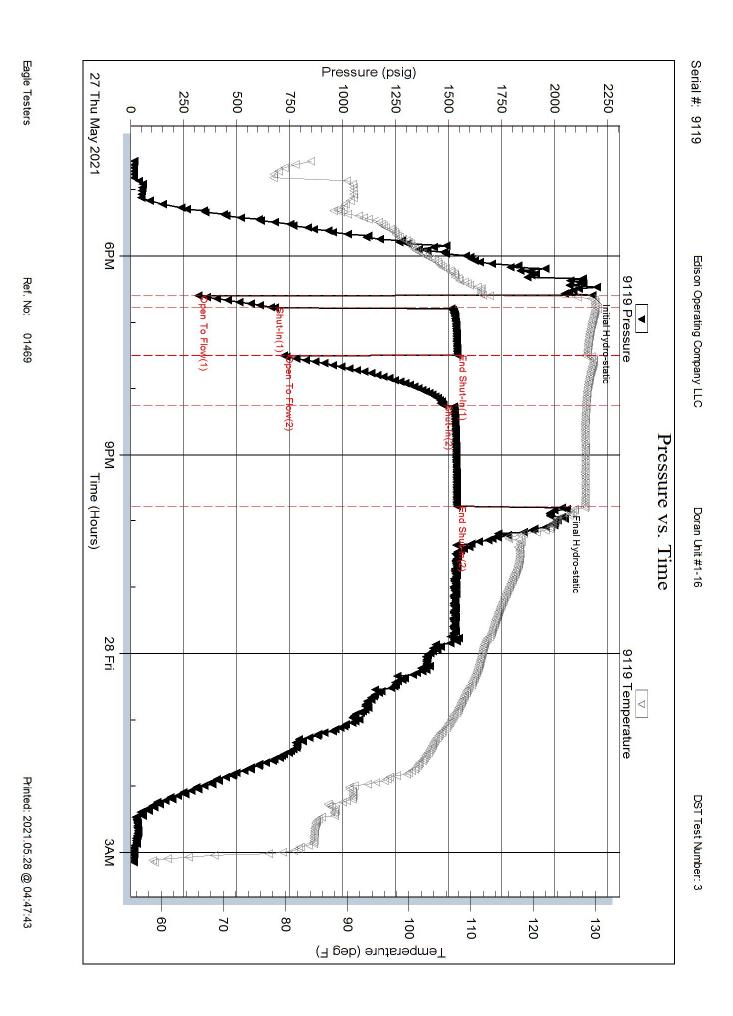
Total Length: 49.938 bbl 3560.00 ft Total Volume:

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

Laboratory Location: Laboratory Name:

Recovery Comments:

Eagle Testers Printed: 2021.05.28 @ 04:47:43 Ref. No: 01469



Eagle Testers

Ref. No.

01469

Printed: 2021.05.28 @ 04:47:43



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:
 5/19/2021

 Invoice #:
 0353106

 Lease Name:
 Doran Unit

 Well #:
 1-16 (New)

 County:
 Stafford, Ks

 Job Number:
 WP1408

 District:
 Pratt

Date/Description		HRS/QTY	Rate	Total
Surface		0.000	0.000	0.00
A-Con		150.000	18.480	2,772.00
Cement Class A		200.000	14.960	2,992.00
Calcium Chloride		376.000	0.660	248.16
Cello Flake		49.000	1.540	75.46
Wooden plug 8 5/8"		1.000	132.000	132.00
Light Eq Mileage	v.	25.000	1.760	44.00
Heavy Eq Mileage	450	25.000	3.520	88.00
Ton Mileage	' Cy	411.000	1.320	542.52
Cement Pump Service	25/9	1.000	660.000	660.00
Cement Plug Container	6	1.000	220.000	220.00
	Canbur Foe 85/9' Chi			

Total	7,774.14

**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.



Customer	Edison Operating (	Company LLC	Lease & Well #	Doran Unit	1-16				Date	5/1	9/2021	
Service District	Pratt Kansas		County & State	Stafford Ka	ansas	Legals S/T/R	16 24s	14w	Job ≝			
Job Type	Surrface	☑ PROD	□ INJ	SWD		New Well?	✓ YES	☐ No	Ticket π	W	p1408	
Equipment#	Driver			Job Sa	fety Ana	lysis - A Discuss	ion of Hazards (	& Safety Pro	cedures			
916	M Brungardt	✓ Hard hat		✓ Gloves			Lockout/Tag	out	Warning Sign	s & Flagging		1
176/521	G Mclamore	✓ H2S Monitor	-	✓ Eye Pro	tection		Required Pe	•	Fall Protection			
181/532	J Travino	☑ Safety Footw		Respira	tory Pro	tection	✓ Slip/Trip/Fal	l Hazards	Specific Job S	equence/Exp	ectatio	ns
		☑ FRC/Protecti		Additio	onal Cher	nical/Acid PPE	✓ Overhead H	azards	Muster Point	'Medical Loca	tions	
		Hearing Prot	ection	✓ Fire Ext	tinguishe	r	Additional of	oncems or is	sues noted below			
						Con	ments					
Product/ Service												
Code		Desc	ription			Unit of Measure	Quantity	20 1/ 10/2				Amount
cp026	A-Con					sack	150_00					\$2,772.00
cp010	Class A Cement					sack	200_00					\$2,992.00
cp100	Calcium Chloride				_	lb	376,00					\$248.16
cp120	Cello-flake					ib	49.00				-	\$75.46
(e290	8 5/8" Wooden Plug					ea	1,00					\$132.00
m015	Light Equipment Mil				-	mi	25 00				_	\$44.00
m:010	Heavy Equipment M	Mileage				mi	25.00					\$88.00
пі020	Ton Mileage	^			-	tm	411,00					\$542.52
c010	Cement Pump Serv					ea	1,00					\$660.00
c050	Cement Plug Conta	iner			-	job	1.00					\$220.00
	1 1				-							
									-			
									<u> </u>			
											_	
Custo	omer Section: On in	e following scale l	how would you rate	Hurricane S	arvices I	NC 7				Net:		\$7,774.14
							Total Taxable	\$ -	Tax Rate:			~
Ba	sed on this job, ho	w likely is it you	would recommen	d HSI to a co	olleague	?	State tax laws de-	em certain pro	ducts and services	Sale Tax:	\$	
							used on new well Hurricane Service		exempt. customer provided			
	military 1 2	3 4 5	6 7 8			emaly Likely		bove to make	a determination if			
					_					Total:	5	7,774.14
							HSI Represe	entative:	Mark Brung	ardt		
TEDUS: Cash in other											******	

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 ½% 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'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. Achail 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 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 unto above, and Hurricane has been provided accurate well information in determining taxable services.

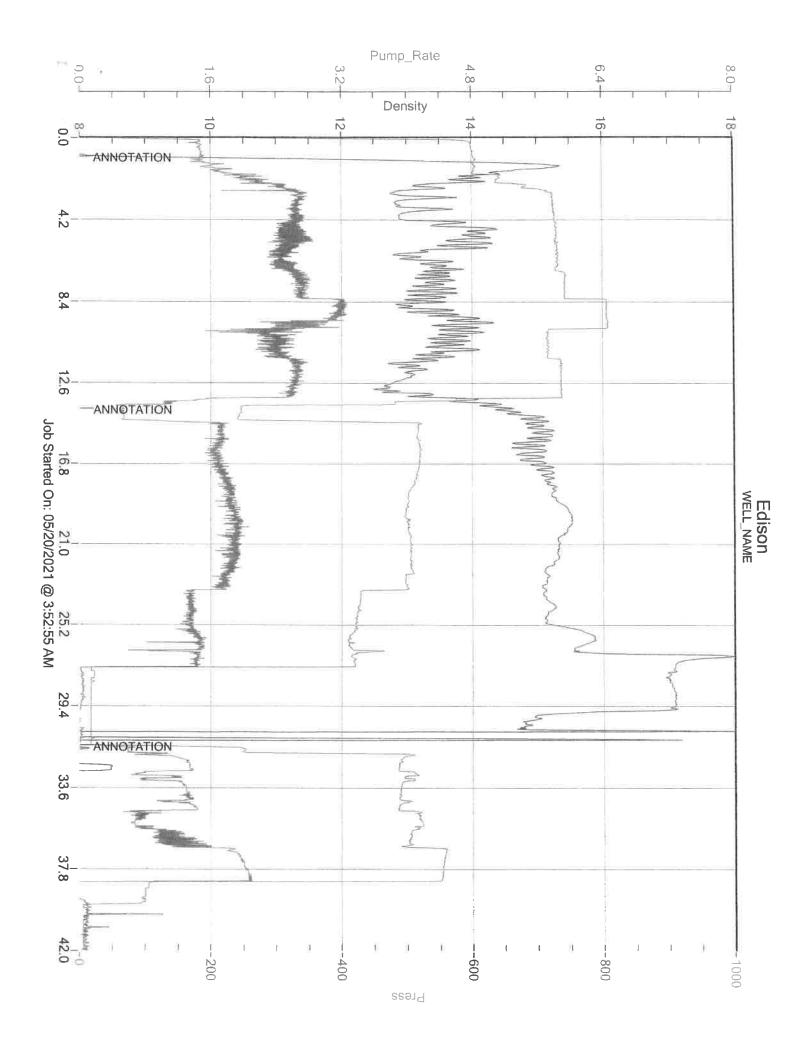
**CUSTOMER AUTHORIZATION SIGNATURE** 

ftv: 15-2021/01/25 mplv: 148-2021/05/17



MENT	TRE	ATMEN	T REPO	ORT				
Cust	omer:	Edison (	Operatir	ng Company	LLC Well:	Doran Unit 1-	16 Ticket:	wp1408
City,	ty, State: Macksville Kansas			as	County:	Stafford Kansa	S Date:	5/19/2021
Field Rep: Doug Roberts 620-617-6023			20-617-6023	S-T-R:	16 24s 14w	Service:	Surrface	
Dowr	ihole I	nformatio	on		Calculated Slu	rry - Lead	Calcu	lated Slurry - Tail
Hole	Size:	12 1/4	in		Blend:	A-Con	Blend:	A 2% cc
Hole D	epth:	377	ft		Weight:	12.5 ppg	Weight:	15.6 ppg
Casing	Size:	8 5/8	in		Water / Sx:	12.3 gal / sx	Water / Sx:	5.2 gal / sx
asing D	-	375	ft		Yield:	2.17 ft <sup>3</sup> / sx	Yield:	1.20 ft <sup>3</sup> / sx
ubing / l	Liner:		in		Annular Bbls / Ft.:	bbs / ft.	Annular Bbis / Ft.:	bbs / ft.
	epth:		ft		Depth:	ft	Depth:	ft
oot / Pa					Annular Volume:	0.0 bbls	Annular Volume:	0 bbis
Tool D			ft		Excess:	310%	Excess:	260%
isplace	nenti	22.0	THE RESERVE	TOTAL	Total Socks	58.0 bbls	Total Slurry: Total Sacks:	42.7 bbls 200 sx
IME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks:	150 sx	Total Sacks:	200 54
0:00 PM			-	-	on location job and safe	y		
):30 PM					spot trucks and rig			
3:30 AM					start casing			
:40 AM					casing on bottom and rig	up to circulate		
4:50 AM		350.0	3.0	3.0	3bbls fresh water			
	6.0	350.0	58.0	61.0	mix 150 sacks A con			
5:20 AM	4.0	250.0	42.0	103.0	mix 200 sacks a 2%cc			
3:20 AM				103.0	cement in and shut down	1		
5:25 AM				100.0	start displacement			
- 1	4,5	250.0	10.0					
	4.5	250.0	15.0			5		
5:30 AM		260.0	21.5		plug down			
					cement did circulate			
		CREW			UNIT		SUMMAR	
Cementer: M Brungardt				916	Average Rate	Average Pressure	Total Fluid	
ump Ope			lamore		176/521	5.1 bpm	283 psi	150 bbls
	ilk #1:	J Tra			181/532	5.1 Spin	200 p31	100 0010
	ılk #2	- 114						

ftv: 15-2021/01/25 mplv: 148-2021/05/17





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: 6/6/2021 Invoice #: 0353217 Lease Name: Doran Unit Well#: 1-16 (New) County: Stafford, Ks Job Number: WP1438 District: Pratt

Date/Description	HRS/QTY	Rate	Total
5/29/2021 Longstring	0.000	0.000	0.00
H-Long	175.000	24.640	4,312.00
H-Plug	75.000	11.440	858.00
KOL Seal	372.000	0.660	245.52
Cello Flake	63,000	1.540	97.02
5 1/2" Floatshoe-Flapper AFU	1,.000	330.000	330.00
5 1/2" LD Plug & Baffle	1.000	308.000	308.00
5 1/2" Turbolizers	11:000	70.400	774.40
Light Eq Mileage	25.000	1.760	44.00
Heavy Eq Mileage	25.000	3.520	88.00
Cement Pump Service	1.000	1,320.000	1,320.00
Cement Plug Container	1.000	220.000	220.00
Cement Data Acquisition	1.000	220.000	220.00
Ton Mileage	285.000	1.320	376.20

Total

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.



Customer	Edison Operating	Company LLC	Lease & Well #	Doran Unit 1=	16			Date	5/2	29/2021	
Service District	Pratt Kansas		County & State	Stafford Kans	as Legals S/T/R	16-24	s-14w	Job#			
Job Type	Long string	☑ PROD	☐ INJ	SWD	New Well?	✓ YES	□ No	Ticket#	w	p 1438	
Equipment #	Driver			Job Safety	Analysis - A Discus	sion of Hazards	& Safety Pro	ocedures			
916	M brungardt	✓ Hard hat		✓ Gloves		Lockout/T		☐ Warning Sign	ns & Flanninn		
176/521	K lesaly	✓ H2S Monitor		☑ Eye Protect	tion	Required F	_	Fall Protection			
181/532	R Gilley	Safety Footwe	ear	Respiratory	Protection	✓ Slip/Trip/F	all Hazards	Specific Job		pectations	
		FRC/Protectiv	e Clothing	Additional	Chemical/Acid PPE	✓ Overhead	Hazards	✓ Muster Point			
		Hearing Prote	ection	Fire Extings	uisher	Additional	concerns or i	ssues noted below			
					Cor	mments					
Product/ Service Code		Descr	iption		Unit of Measure	Quantity				Net Amount	
ep030	H-Long				sack	175,00				\$4,312.00	
cp055	H-Plug				sack	75,04				\$858.00	
cp110	Kol Seal				tb	372,00				\$245.52	
cp110	Cello-flake				lb	63,00				\$97.02	
fe145	5 1/2" Float Shoe - A	AFU Flapper Type			ea	1,90				\$330.00	
fe170	5 1/2" Latch Down F	lug & Baffle			ea	1,00				\$308.00	
f=135	5 1/2 Turbolizer				ea	11,00				\$774.40	
m015	Light Equipment Mil				mi	25,00				\$44.00	
m010	heavy equipment mi	lage.			mt	25.00				\$88.00	
6015	Coment Pump Servi	ice			ea	1,00				\$1,320.00	
£050	Cement Plug Contai	ner			job	1,00				\$220.00	
p035	Cement Data Acquis	sition			job	1.00				\$220.00	
ni020	Ton Mileage				fm	1295,00				\$376.20	
							-				
	-										
							-				
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				,							
							-				
					<del>_</del>						
Custo	mer Section: Cin the	-folio vina scale hi	w venild you cate a	Humirana Saruc	as Inc. 2						
			Oncor Carry	TO TOURS OF ME		Total Taxable	\$	T 0.1	Net:	\$9,193.14	
Bas	sed on this job, how	v likely is it you w	ould recommend	HSI to a collea	gue?	TOTAL TAXABLE	10	Tax Rate:	Sale Tax:	5	
									OHIE I GA;		
Lle		3 4 5	6 7 8		F						
			- 1 0	9 10	Extremely Likely				Total:	\$ 9,193.14	
TEDMS: Cash la advis	nce unless Humirana S					HSI Repres	entative:	Mark Brung	rardt		

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 1.5% 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 case. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no fability 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 find may be achieved and should be used for compansion purposes and HSI makes no 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.

**CUSTOMER AUTHORIZATION SIGNATURE** 



EMENT	TRE	ATMEN	IT REP	ORT				
Cust	tomer:	Edison	Operatir	ng Compa	iny LLC Well:	Doran Unit 1≃1	Ticket:	4420
CAN CLA CT LIV. M			County:		wp 1438			
Ciril Day Distance						Stafford Kansas		5/29/2021
	a riepi	TXION I O	hh		S-T-R:	16-24s-14w	Service:	Long string
Dow	nhole l	nformati	on		Calculated Slui	rry - Lead	Calcu	llated Slurry - Tail
	Size:	7 7/8	in		Blend:	H-plug	Blend:	H-long
Hole E		4420			Weight:	13.4 ppg	Weight:	15 ppg
Casing		5 1/2			Water / Sx:	6.9 gal / sx	Water / Sx:	6.0 gal / sx
Casing E Tubing /		4415			Yield:	1,43 ft <sup>3</sup> / sx	Yield:	1.42 ft <sup>3</sup> / sx
	Depth:		in ft		Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Tool / Pa			- I		Depth:	ft	Depth:	ft
Tool D			ft		Annular Volume:	0.0 bbis	Annular Volume:	0 bbls
Displace	- 18		bbls		Excess: Total Slurry:	d5 0 bblo	Excess:	
	× =##	25	STAGE	TOTAL	Total Sacks:	15.0 bbls 60 sx	Total Slurry: Total Sacks:	44.2 bbls 175 sx
TIME	RATE	PSI	- BBLs	BBLs	REMARKS		Total Sacks:	III SA
11:00 AM			34	=	on location job and safety			
				*	spot trucks and rig up			
				- 3				
12:00p					centralizers on 1,2,3,4.5,12	2,13.14,15,16,17		
2:40 PM					start casing in the hole			
2:43 PM				-	pipe on bottom and drop t	the ball		
					rig up to circulate			
2:45 PM					start circulating			
3:50 PM					switch over to go down he	ole		
3:55 PM			6.0		plug rat hole 20 sacks			
-								
4:00 PM					start cement down hole			
	6.5 6.6	300.0	14.0		mix 55 sacks scavenger			
4:20 PM	0.0	300.0	44.2		mix 175 sacks tall			
1.20 ( 1.11					cement in			
					wash pump and lines			
4:25 PM					start displacement			
	6.5	220.0	45.0					
3	3.0	580.0	90.0					77
4:45 PM		1,000.0	101.0		land plug ,,went from 10	00psi to 1500psi		
		-						
	-				plug did hold			
		CREW						-
Caes	enter:		ngardt		UNIT		SUMMARY	
ump Ope		Klesa			916 176/521	Average Rate	Average Pressure	Total Fluid
	tk #1:	R Gill			181/532	5.6 bpm	480 psi	300 bbls
	lk #2:		-/		1011032			

ftv: 15-2021/01/25 mplv: 150-2021/05/24

