

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1337117  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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  SIOW
- Gas  D&A  ENHR  SIGW
- OG  GSW  Temp. Abd.
- 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 ENHR  Conv. to SWD
- Plug Back  Conv. to GSW  Conv. to Producer
- Commingled Permit #: \_\_\_\_\_
- Dual Completion Permit #: \_\_\_\_\_
- SWD Permit #: \_\_\_\_\_
- ENHR Permit #: \_\_\_\_\_
- GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1337117

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007020	1718	12/23/2016
<b>INVOICE NUMBER</b>			
<b>92309352</b>			

Pratt (620) 672-1201  
 B EDISON OPERATING COMPANY LLC  
 I 8100 E 22ND ST N  
 L WICHITA  
 L KS US 67226  
 T  
 O ATTN: DAVID WITHROW

J LEASE NAME Page 1-26  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40988706	27463		Net - 30 days	01/22/2017	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 12/13/2016 to 12/13/2016</b>					
0040988706					
171814827A Cement-New Well Casing/Pi 12/13/2016 Cement Surface					
A-Serv Lite		175.00	EA	6.76	1,183.00
Cement		175.00	EA	8.32	1,456.00
Celloflake		89.00	EA	1.92	171.24
Calcium Chloride		789.00	EA	0.55	430.79
"Wooden Cmt Plug, 8 5/8" "		1.00	EA	83.20	83.20
"Unit Mileage Chg (PU, cars one way)"		20.00	MI	2.34	46.80
Heavy Equipment Mileage		40.00	MI	3.90	156.00
"Proppant & Bulk Del. Chgs., per ton mil		318.00	EA	1.30	413.40
Blending & Mixing Service Charge		350.00	BAG	0.73	254.80
Plug Container Util. Chg.		1.00	EA	130.00	130.00
Depth Charge; 0-500'		1.00	EA	520.00	520.00
"Service Supervisor, first 8 hrs on loc.		1.00	EA	91.00	91.00

*Cement for 8 5/8" CSN  
 9232  
 RM  
 12-29*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,936.23
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,936.23
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

**FIELD SERVICE TICKET**  
**1718 14827 A**

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>12-13-16</b> DISTRICT <b>Pratt, KS</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <b>EDISON OPER. CO. INC.</b>		LEASE <b>PAGE 1-26</b> WELL NO.								
ADDRESS		COUNTY <b>STAFFORD</b> STATE <b>KS</b>								
CITY STATE		SERVICE CREW <b>KG, BRYAN</b>								
AUTHORIZED BY		JOB TYPE: <b>242-SURFACE</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<b>27423</b>	<b>1/2</b>						<b>12-13</b>			<b>0400</b>
						ARRIVED AT JOB				<b>0600</b>
<b>17860</b>	<b>1/2</b>					START OPERATION				<b>1115</b>
						FINISH OPERATION				<b>1145</b>
						RELEASED				<b>1230</b>
						MILES FROM STATION TO WELL				<b>20</b>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CE106	A SERV LITE	SK	175		2275.00
CE100	COMMON	SH	175		2800.00
CE102	CELL FLAME	lb.	89		329.30
CE109	CORROSION CHEMICAL	lb.	789		828.45
CE153	8 3/8 WOOD PLUG	EA	1		160.00
E100	PICKUP MILEAGE	mi	20		90.00
E101	TRUCK MILEAGE	mi	40		300.00
E113	BANK DELIVERY	7M	318		775.00
CE200	DEPTH CHARGE 0-500'	EA	1		1000.00
CE240	BLINDING CHARGE	SK	350		490.00
CE504	PLUG CONTAINER	EA	1		250.00
5003	SERVICE SUPERVISOR	EA	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL		<b>9497.75</b>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<b>4936.23</b>

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
FIELD SERVICE ORDER NO. \_\_\_\_\_ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 14827 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 12/13/16	DISTRICT: Pratt, KS	NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: EDISON OPER CO. INC.		LEASE: PAGE 1-26				WELL NO.:				
ADDRESS:		COUNTY: SPTFIELD	STATE: KS							
CITY: STATE:		SERVICE CREW: K.G. BRANTN								
AUTHORIZED BY:		JOB TYPE: 242 - SERVICE								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
2195	1/2						12/13/16			1400
						ARRIVED AT JOB				1400
						START OPERATION				1415
						FINISH OPERATION				1445
						RELEASED				1235
						MILES FROM STATION TO WELL				20

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	A SERV...	SR	175		2075.00
E100	...	SR	175		2000.00
E102	...	IL	87		388.35
E109	...	IL	289		878.97
E153	...	DI	1		160.00
E100	...	MI	24		70.00
E101	...	MI	46		340.00
E113	...	MI	318		755.00
E200	...	DI	1		1000.00
E200	...	SA	890		1470.00
E304	...	DI	1		250.00
E003	...	DI	1		175.00
	...				
	...				
	...				
	...				
	...				
	...				
	...				
	...				

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SUB TOTAL: 14971.75  
TOTAL: 4936.23

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer	EDISON OPER. CO. INC.		Lease No.	1-26		Date	12-13-16	
Lease	PAGE		Well #	1-26				
Field Order #	Station	Casing	Depth	County	State			
17007	PRATT, KS.	8 5/8	495	STAFFORD	KS.			
Type Job	242-SURFACE		Formation	TD-496		Legal Description	26-2443	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
8 5/8				Pre Pad	Max			5 Min.
Depth	Depth	From	To	Pad	Min			10 Min.
495				Frac	Avg			15 Min.
Volume	Volume	From	To		HHP Used			Annulus Pressure
Max Press	Max Press	From	To	Flush	Gas Volume			Total Load
Well Connection	Annulus Vol.	From	To					
Plug Depth	Packer Depth	From	To					

Customer Representative	POPP	Station Manager	KEVIN	Treater	GORSLEY
Service Units	83353	27463	84980-19860		
Driver Names	KG	BRADW	BRADW		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0600					ON LOCATION
					RUN 495' 8 5/8" TSC
					BREAK CIRC.
					MIX CEMENT
1115			52	6	175 SK A-SEW LITE
			37	6	175 SK COMMON
			89		29.00 1/4" C.F.
			0	6	STOP - DROP WOOD PLUG
1145			30	6	START DISP.
					PLUG DOWN
					CIRC. 10 bbl CEMENT TO SET
1230					JOB COMPLETE - KEVIN



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007020	1718	12/29/2016
<b>INVOICE NUMBER</b>			
<b>92314101</b>			

Pratt (620) 672-1201  
 B EDISON OPERATING COMPANY LLC  
 I 8100 E 22ND ST N  
 L WICHITA  
 L KS US 67226  
 T  
 O ATTN: DAVID WITHROW

J LEASE NAME Page 1-26  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40989882	20920		Net - 30 days	01/28/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 12/20/2016 to 12/20/2016</b>				
0040989882				
171814216A Cement-New Well Casing/Pi 12/20/2016 Cement Longstring				
AA2 Cement	175.00	EA	8.84	1,547.00
60/40 POZ	100.00	EA	6.24	624.00
C-41P	42.00	EA	2.08	87.36
Salt	872.00	EA	0.26	226.72
FLA-322	83.00	EA	3.90	323.70
Gilsonite	875.00	EA	0.35	304.85
Mud Flush	500.00	EA	0.78	390.00
Claymax KCL Substitute	5.00	EA	18.20	91.00
"Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	208.00	208.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	187.20	187.20
"5 1/2" Basket (Blue)"	1.00	EA	150.80	150.80
"Turbolizer, 5 1/2" (Blue)"	7.00	EA	57.20	400.40
"Unit Mileage Chg (PU, cars one way)"	20.00	MI	2.34	46.80
Heavy Equipment Mileage	40.00	MI	3.90	156.00
"Proppant & Bulk Del. Chgs., per ton mil	208.00	EA	1.30	270.40
Blending & Mixing Service Charge	225.00	BAG	0.73	163.80
Plug Container Util. Chg.	1.00	EA	130.00	130.00
Depth Charge; 4001'-5000'	1.00	EA	1,310.40	1,310.40
"Service Supervisor, first 8 hrs on	1.00	EA	91.00	91.00

*CEMENT FOR 5 1/2" CSW  
 9318  
 1.12  
 7/6*

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>6,709.43</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>0.00</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>6,709.43</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 14216 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 12/20/16		DISTRICT PRATT, KS.		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:						
CUSTOMER EDISON OPERATING CO. LLC		LEASE PAGE 1-26		WELL NO.						
ADDRESS		COUNTY STAFFORD		STATE KS.						
CITY		STATE		SERVICE CREW KC. McGRATH, HUCK						
AUTHORIZED BY		JOB TYPE: 242 - LOW G. STRONG								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
20720	3/4						12-20			1700
19860	1/2									1200
										1515
										1600
										1700
						MILES FROM STATION TO WELL 20				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Kendy Papp  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CC105	AA2 CEMENT	SK	175		2975.00
CC103	60/40 802	SK	200		1800.00
CC105	C-411	lb.	42		168.00
CC111	SILT	lb.	872		436.00
CC127	FHA-322	lb.	83		622.50
CC201	LISSOWITE	lb.	875		586.25
CF601	5/8 LATCH DOWN PLUG	EA	1		400.00
CF125	5/8 API FLOW STR	EA	1		360.00
CF165	5/8 TURBOLIZER	EA	7		270.00
CF170	5/8 BRISKE	EA	1		290.00
CE151	MINIFLUSH	gal	500		750.00
CE104	CLAYMAX HCL SUBSTITUTE	gal	5		175.00
E100	TRUCK HIRE/FARE	mi	20		90.00
E101	HEAVY EQUIPMENT HIRE/FARE	mi	40		300.00
E113	BULK DELIVERY	TW	208		520.00
CE205	DEPTH CHANGE 4001 - 5000'	EA	1		2520.00
CE240	BLENDING CHANGE	SK	225		315.00
CE504	PLUG FOR TROWER	EA	1		250.00
5003	SERVICE SUPERVISOR	EA	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL	12,992.75
SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	6709.43

SERVICE REPRESENTATIVE: <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 14216 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB	DISTRICT	NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.
CUSTOMER	LEASE		WELL NO.				
ADDRESS	COUNTY	STATE					
CITY	STATE	SERVICE CREW					
AUTHORIZED BY	JOB TYPE:						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
						ARRIVED AT JOB	AM PM
						START OPERATION	AM PM
						FINISH OPERATION	AM PM
						RELEASED	AM PM
						MILES FROM STATION TO WELL	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
1103	1412 (1) 211 LTR 1	EA	1	193.00	193.00
1109	6440 1-2	EA	1	126.00	126.00
12109	1-411	EA	42	16.80	705.60
12111	51127	EA	872	4.86	4238.32
12127	411-322	EA	13	62.25	809.25
12201	51250 275	EA	275	5.06	1392.50
1461	541 1111 1000 1000	EA	1	400.00	400.00
15101	541 1111 1000 1000	EA	1	300.00	300.00
1451	541 1111 1000 1000	EA	7	77.00	539.00
1471	541 1111 1000 1000	EA	1	240.00	240.00
15101	1111 1111 1111	EA	90	7.80	702.00
1604	1111 1111 1111 1111	EA	5	17.00	85.00
E100	1111 1111 1111 1111	EA	24	76.00	1824.00
E101	1111 1111 1111 1111	EA	40	30.00	1200.00
E113	1111 1111 1111 1111	EA	208	57.00	11856.00
14203	1111 1111 1111 1111	EA	1	2510.00	2510.00
14246	1111 1111 1111 1111	EA	225	315.00	70875.00
14504	1111 1111 1111 1111	EA	1	23.00	23.00
1451	1111 1111 1111 1111	EA	1	175.00	175.00

SUB TOTAL 1291.75

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		6707.43

SERVICE REPRESENTATIVE \_\_\_\_\_ THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: \_\_\_\_\_  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <b>EDISON OPERATING CO. LLC</b>		Lease No. <b>1-26</b>		Date <b>12-20-16</b>	
Lease <b>PHOE</b>		Well # <b>1-26</b>			
Field Order # <b>14216</b>	Station <b>PRATT, KS</b>	Casing <b>5 1/2</b>	Depth <b>4187</b>	County <b>STAFFORD</b>	State <b>KS</b>
Type Job <b>242 - LONG STRING</b>			Formation <b>TD-4188</b>	Legal Description <b>76-24-13</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2</b>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth <b>4187</b>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <b>101 1/2</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>4180</b>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <b>RICK POPP</b>	Station Manager <b>KEVIN</b>	Treater <b>CONLEY</b>
Service Units <b>83353</b>	<b>19903-20920</b>	<b>84980-19860</b>
Driver Names <b>KG</b>	<b>MURPHY</b>	<b>HUCK</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1200					ON LOCATION 38'-S.J. RUN 99 ITS 5 1/2" PGE = 4194' 14" LEFT SHOE, LATCH BIT SET, DUTY PWT - 1-3-4-5-9-10-11 BIT SET - #8
1410					TRIP BOTTOM - DROP BIT SET - CIRCULATE 50 SK 60/40 PGE
1515	200		20	5	MIX 20 bbl 2% KCL H <sub>2</sub> O
	260		12	5	MIX 12 bbl MUD FLUSH
	700		3	5	MIX 3 bbl H <sub>2</sub> O SPACER
	150		44	5	MIX 175 SK 40/20 CEMENT 1/4% DEFAMER, 10% STC, 1/2% FEA-322, 5" SK DISHWITE 15" gal, 1.4300/SK
			10		
			54		
	0		0	6	STOP - WASH LINE - DROP PUC START DESP w/ 2% KCL H <sub>2</sub> O
	200		75	6	LEFT CEMENT
	750		90	4	SLOW RATE
1600	1700		1-09 1/2	3 1/2	PUC DOWN - HOLD PUC RATE H <sub>2</sub> O - 30 SK 60/40 PGE PUC HOUSE HOLD - 20 SK 60/40 PGE
1700					JOB COMPLETE - KEVIN

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Pat Apple, Chairman  
Shari Feist Albrecht, Commissioner  
Jay Scott Emler, Commissioner

Sam Brownback, Governor

May 02, 2017

David Withrow  
Edison Operating Company LLC  
8100 E. 22ND ST. N., BLDG 1900  
WICHITA, KS 67226

Re: ACO-1  
API 15-185-23976-00-00  
PAGE 1-26  
SW/4 Sec.26-24S-13W  
Stafford County, Kansas

Dear David Withrow:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/14/2016 and the ACO-1 was received on May 02, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



**EDISON OPERATING COMPANY<sub>LLC</sub>**

Scale 1:240 Imperial

Well Name: Page #1-26  
 Surface Location: Sec. 26 - T24S - R13W  
 Bottom Location:  
 API: 15-185-23976-0000  
 License Number:  
 Spud Date: 12/12/2016 Time: 5:40 PM  
 Region: Stafford County, KS  
 Drilling Completed: 12/18/2016 Time: 12:00 AM  
 Surface Coordinates: 430' FSL & 430' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1925.00ft  
 K.B. Elevation: 1933.00ft  
 Logged Interval: 3000.00ft To: 4192.00ft  
 Total Depth: 4188.00ft  
 Formation: Viola  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: Edison Operating Company LLC  
 Address: 8100 E. 22nd St. North  
 Building 1900  
 Wichita, KS 67226  
 Contact Geologist: David Withrow  
 Contact Phone Nbr: 316.613.1544  
 Well Name: Page #1-26  
 Location: Sec. 26 - T24S - R13W  
 API: 15-185-23976-0000  
 Pool:  
 State: Kansas Field: USA  
 Country: USA

**LOGGED BY**



**EDISON OPERATING COMPANY<sub>LLC</sub>**

Company: Edison Operating Company  
 Address: 8100 E. 22nd St. North  
 Building 1900  
 Wichita, KS 67226  
 Phone Nbr: 316.650.9677  
 Logged By: Geologist Name: Adam T. Kennedy

**REMARKS**

After evaluation of the geological report, open hole logs, and positive drill stem test results, the operator chose to run 5 1/2 production casing to further evaluate the Viola dolomite formation for commercial quantities of oil and gas.

Respectfully submitted,

Adam T. Kennedy  
 Petroleum Geologist  
 Edison Operating Company, LLC

**GENERAL INFORMATION**

**Service Companies**

Drilling Contractor: Southwind Rig #1

Drilling Fluid: Mud-Co/Service Mud Inc.  
 Engineers: Rick Hughes

Logging Company: ELI  
 Engineer: Jeff Luebbers  
 Logs Ran: ND, SON, PE, DI, MICRO

Gas Detector: Bluestem Environmental

Engineer: Keith Reavis  
 Unit: 5198  
 Operational By: 2500'

Testing Company: Eagle Testers  
 Tester: Gene Budig

Deviation Survey	
Depth	Survey
496'	1 deg
4026', TD	misrun

Pipe Strap	
Depth	Pipe Strap
4026'	3.96" short to board

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	Milltooth			0	324	324	4.25
2	7 7/8	RR Reed	R 24		324	3470	3146	44.25
3	7 7/8	RR Reed	S52		3470	3991	521	21
4	7 7/8	Reed	S52P		3991	4188	197	7.25

**Surface Casing**  
 Ran 12 joints new 23# 8 5/8 casing, Tally @ 480', set @ 493'. Used 350 sacks total, 175 sacks of Class A, 2% gel, 3% cc and 175 sacks of lite, cemented circulated by Basic (ticket 14827, plug down @ 1145 on 12.13.16).

**Production Casing**  
 Ran 99 joints of used 14# 5 1/2 casing, tally @ 4194', set @ 4191'. Used 275 sacks total, 30 sacks for rate hole, 20 sacks for mouse hole, cemented by Basic (Ticket # 1718-14216) job complete @ 4:30 pm on 12.20.16.

**DAILY DRILLING REPORT**

Date	0700 Hrs Depth	Previous 24 Hours of Operations
12.16.16	3470'	Geologist Adam T. Kennedy on location @ 1100 hrs, 3550'. Drilling ahead through Douglas Shale, down for mud pump repairs. WOB: 40k RPM: 75 PP: 900 SPM: 60 DMC: \$1,195.32 CMC: \$7,354.29
12.17.16	3750'	Down from 1100 hrs to 2200 hrs to repair mud pump engine, short trip 20 stands, had to pull entire string to replace plugged bit, trip back in hole, CTCH, resume drilling through LKC. Currently drilling ahead through LKC G. WOB: 32k RPM: 75 PP: 800 SPM: 60 DMC: \$395.84 CMC: \$7,750.13
12.18.16	3991'	Drilling and connections Lansing, Marmaton, Kinderhook. Circulate hole during night-time due to extreme cold. Resume drilling Viola 0700 hrs 12.18.16. WOB: 32k RPM: 75 PP: 800 SPM: 60 DMC: \$384.82 CMC: \$8,134.95
12.19.16	4044'	Drilling and connections Viola, CFS @ 4020', CFS @ 4026'. TOH for DST #1, short trip 20 stands resume TOH for DST #1. Conduct test, TIH w/bit. WOB: 32k RPM: 75 PP: 800 SPM: 60 DMC: \$1,115.19 CMC: \$9,250.14
12.20.16	RTD - 4188' LTD - 4192'	Drilling and connections Viola, CFS @ 4045'. Drilling and connections Viola, Simpson Shale. RTD of 4188' reached @ 1700 hrs 12.19.16. Short trip 15 stands, TIH to condition, TOH for logs. Rig up ELI, conduct logging operations, logging completed 0500 hrs. Geologist, Adam T. Kennedy off location @ 0800 hrs 12.20.16. WOB: 35k RPM: 75 PP: 800 SPM: 60 DMC: \$0.0 CMC: \$9,250.14

**WELL COMPARISON SHEET**

Drilling Well	Comparison Well
Edison Operating - Page #1-26 Sec. 26 - T24S - R13W 430' FSL & 430' FWL	Edison Operating - Page #1-27 OWWO Sec. 27 - T24S - R13W SE SE SE
	Oil - Viola
	Structural

Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Heebner	3432	-1499	3438	-1505	3429	-1499	0	-6
Toronto	3450	-1517	3456	-1523	3446	-1516	-1	-7
Douglas	3470	-1537	3475	-1542	3465	-1535	-2	-7
Brown Lime	3578	-1645	3582	-1649	3573	-1643	-2	-6
Lansing-Kansas City	3612	-1679	3616	-1683	3606	-1676	-3	-7
Muncie Creek	3745	-1812	3748	-1815	3738	-1808	-4	-7
Stark	3814	-1881	3816	-1883	3808	-1878	-3	-5
Marmaton	3904	-1971	3908	-1975	3900	-1970	-1	-5
Kinderhook Shale	3953	-2020	3949	-2016	3950	-2020	0	4
Viola	3991	-2058	3992	-2059	3984	-2054	-4	-5
Simpson Shale	4133	-2200	4138	-2205	4130	-2200	0	-5
Simpson Sand	4142	-2209	not logged	-	4148	-2218	9	-
Arbuckle	not reached	-	not reached	-	4184	-2254	N/A	-
Total Depth	4188	-2255	4192	-2259	4218	-2288	33	29

**ROCK TYPES**

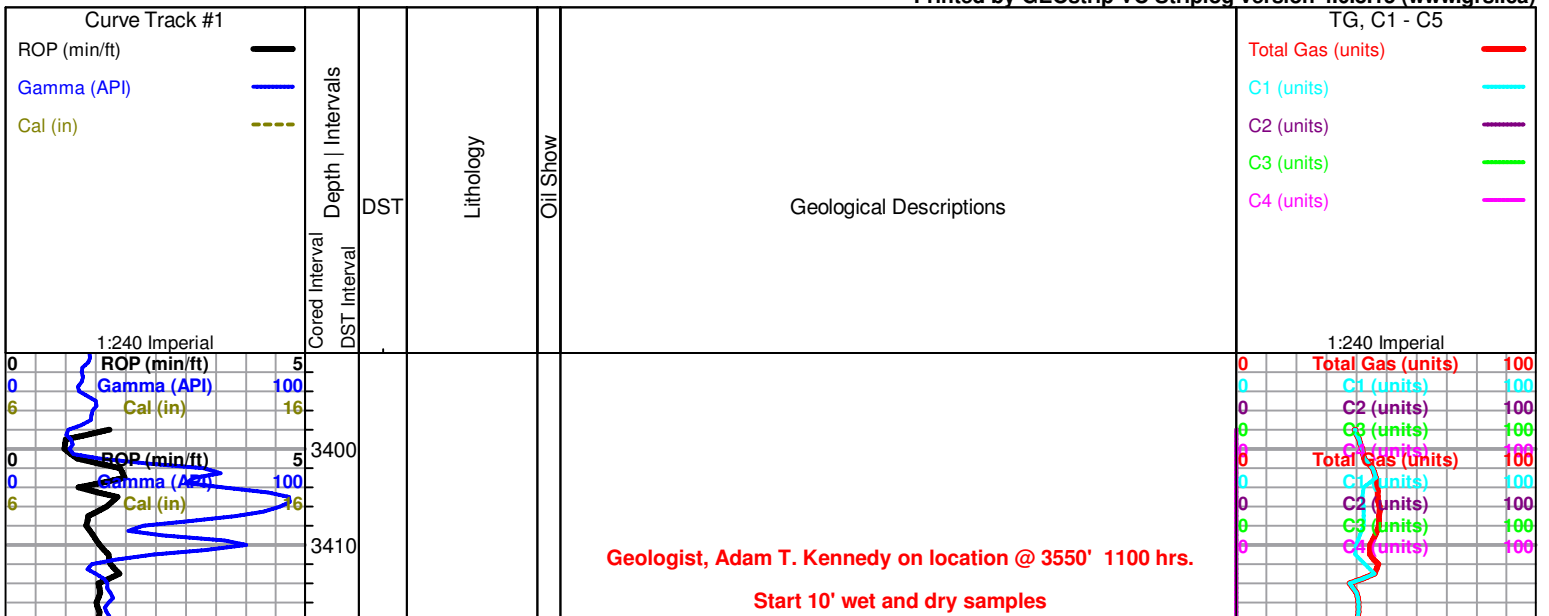
Cht	LMST2	SHALE CAR	SHALE RED
Congl	Ss	SHALE GRN	
DOL2	SILTSTONE	SHALE GRA	

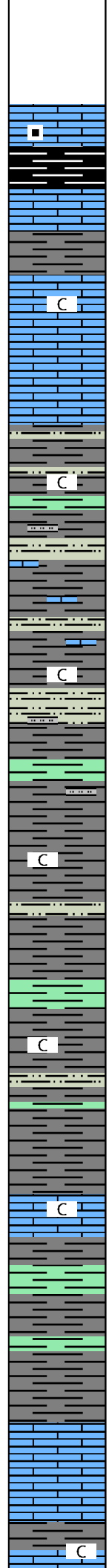
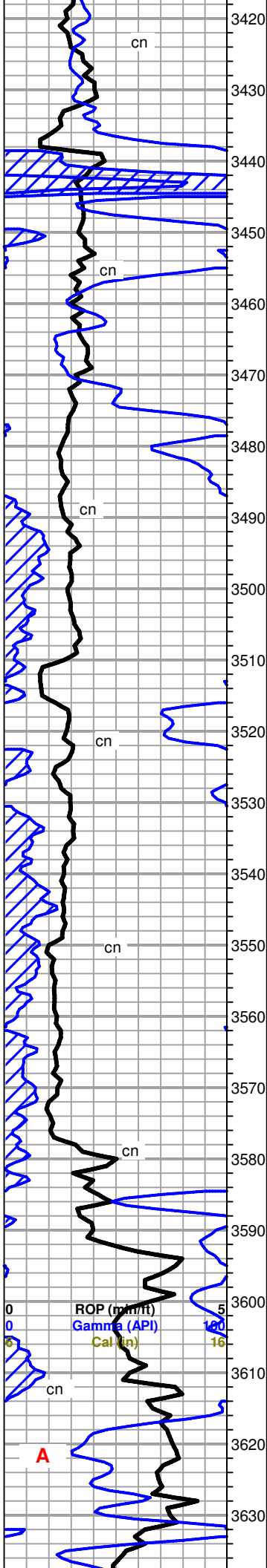
**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
<ul style="list-style-type: none"> <li>■ Carbonaceous Flakes</li> <li>▲ Chert, dark</li> <li>P Pyrite</li> <li>△ Chert White</li> </ul>	<ul style="list-style-type: none"> <li>∩ Bioclastic or Fragmental</li> <li>F Fossils &lt; 20%</li> <li>⊖ Oolite</li> <li>⊕ Oomoldic</li> </ul>	<ul style="list-style-type: none"> <li> Limestone2</li> <li> Siltstone</li> </ul>	<ul style="list-style-type: none"> <li>C Chalky</li> </ul>

**OTHER SYMBOLS**

<b>MISC</b>	<b>DST</b>
<ul style="list-style-type: none"> <li> Daily Report</li> <li> Digital Photo</li> <li> Document</li> <li> Folder</li> <li> Link</li> <li> Vertical Log File</li> <li> Horizontal Log File</li> <li> Core Log File</li> <li> Drill Cuttings Rpt</li> </ul>	<ul style="list-style-type: none"> <li> DST1</li> <li> DST2</li> <li> DST3</li> <li> Core</li> <li> tail pipe</li> </ul>





**Heebner Shale 3432 (-1489)**

Shale: black dark brown gray, dense waxy, carbonaceous.

**Toronto 3450 (-1516)**

Limestone: cream tan, microxl, trace fossils, dense chalky matrix, scattered small calcite nodules, poor interxl porosity, no shows noted.

**Douglas 3470 (-1536)**

Shale: green gray, waxy silty, abundant chalk, samples wash gray, scattered limestone: cream tan, microxl, dense chalky, no shows noted.

Shale: gray dark gray, waxy silty, abundant chalk, samples wash gray.

Shales as above, increasing chalk, scattered conglomerate: chalky trace white chert, silty, pyritic.

Shale, gray green dark green, chalky, waxy silty, trace sand: clear, dense, calcareous, abundant micas and pyrite. no shows noted.

**Brown Lime 3578 (-1644)**

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

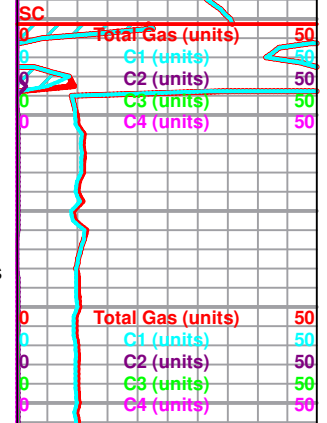
Shale: dark gray green, dense waxy, pyritic, with abundant limestone as above.

**Lansing 3612 (-1678)**

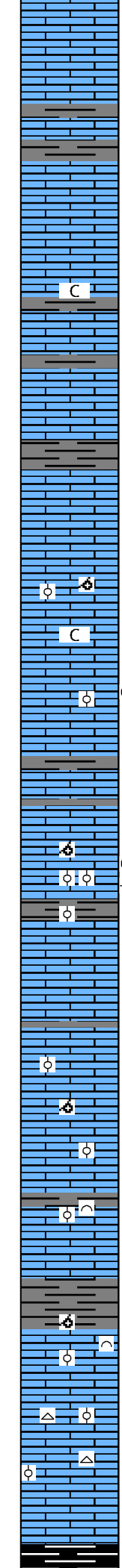
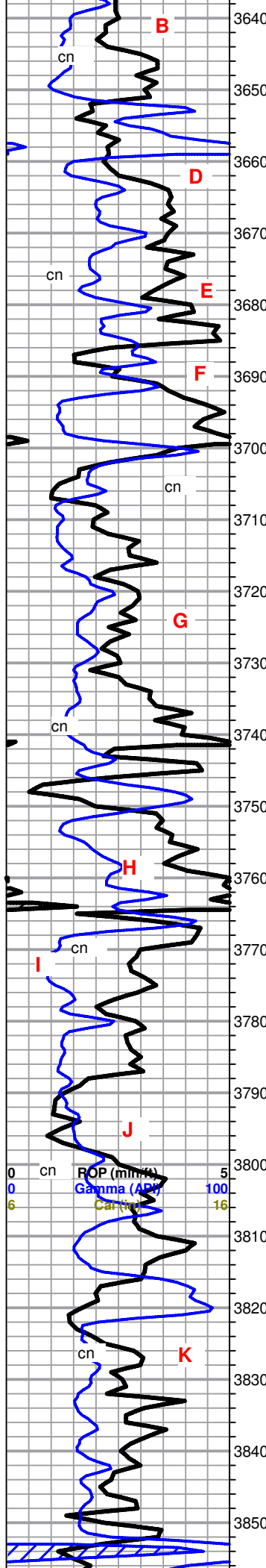
Missing sample

Limestone: cream gray, lithographic to microxl, mostly barren, dense

Mud Co Mud Chk  
3513'  
12.16.16  
Vis: 68  
wt: 9.15  
pH: 10.5  
WL: 8.0  
CHL: 5.500  
LCM: Tr  
DMC: \$1,195.32  
CMC: \$7,354.29







xln matrix, chalky, scattered poor interxln porosity, no shows noted.

Limestone: cream tan, lithographic to microxln, dense xln matrix, scattered poor interxln porosity, no shows noted.

Limestone: white cream tan, microxln, fossiliferous, chalky xln matrix, poor visible porosity, no shows noted.

Limestone: cream tan brown, microxln, fossiliferous, dense xln matrix, scattered poor to fair edge interxln porosity, trace dark brown stain along edges, chalky, faint odor, no other shows noted.

Limestone: cream tan gray, microxln, trace fossils, chalky matrix, poor to fair interxln porosity, no shows noted.

Limestone: white cream tan, microxln, scattered oolites, dense oomoldic matrix, scattered fair oomoldic interxln porosity, no shows noted.

Limestone: white cream tan, micro to finexln, oolitic, dense xln fossiliferous matrix, scattered fair to good edge porosity, trace show oil in porosity, scattered dark brown stain, faint odor.

**Muncie Creek 3745 (-1812)**

Limestone: cream tan brown, micro to finexln, oolitic, scattered oomoldic, dense rexln matrix, very poor visible porosity, abundant recementation, scattered poor edge pinpoint porosity, trace light brown oil and gas under lamp, faint odor.

Limestone: cream tan gray, micro to finexln, oolitic, dense rexln oolitic matrix, very poor porosity, trace edge stain, with slight odor, no other shows noted.

Limestone: cream light brown, micro to finexln, fossiliferous oolitic, trace oomoldic matrix, very dense rexln matrix, very poor visible porosity, no shows noted.

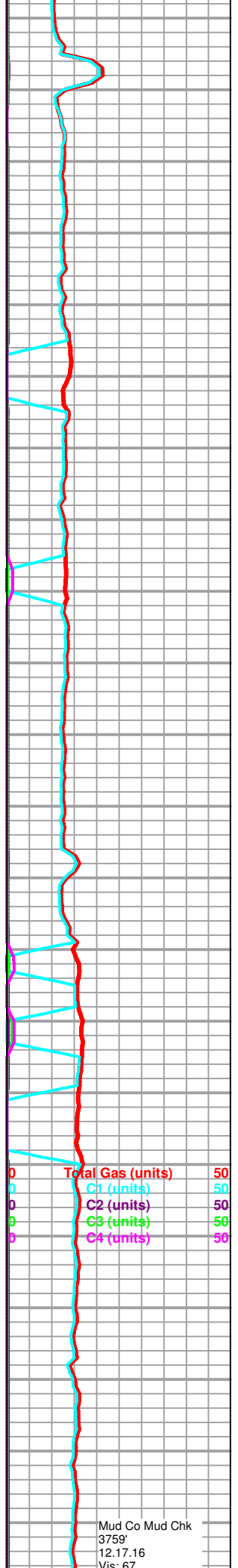
Limestone: white cream tan, micro to finexln, fossiliferous oolitic bioclastic, dense fossiliferous rexln matrix, very poor visible porosity, no shows noted.

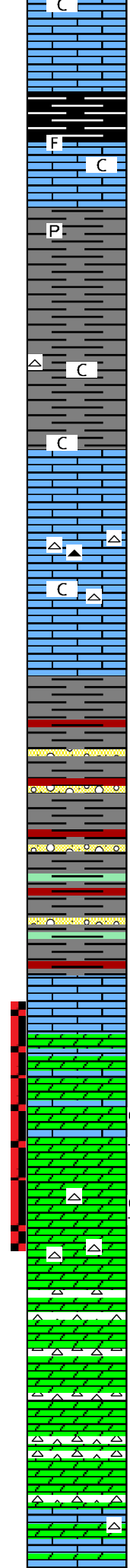
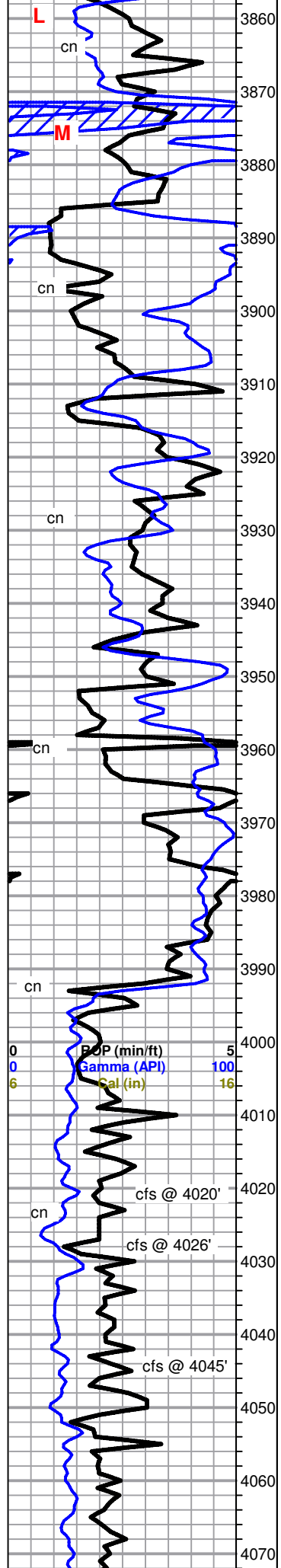
**Stark Shale 3814 (-1881)**

Limestone: white cream, microxln, fossiliferous oolitic, dense xln matrix, abundant rexln, very poor visible porosity, chalky, no shows noted.

Limestone: white cream, microxln, fossiliferous oolitic, dense xln fossiliferous matrix, very poor visible porosity, chalky, scattered chert: white light gray/blue sharp fresh.

Limestone: cream gray, micro to finexln, trace fossils, dense xln matrix.





good interxn porosity, no shows noted, trace chalk.

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

Limestone: brown cream tan, micro to finexln, fossiliferous hash oolites, dense rexln matrix, no shows noted, chalky.

Shale: gray brown black, dense waxy fissile, pyritic.

**Marmaton 3904 (-1971)**

Limestone: white cream, microxln, trace fossils, abundant chalk, chalky matrix, scattered poor interxn porosity, no shows noted.

Limestone: cream tan brown, micro to finexln, fossiliferous hash, chalky, samples wash reddish gray, abundant chalky red shale, no shows noted.

Limestone: white cream, micro to finexln, dense xln matrix, chalky, abundant cherts: white clear purple, sharp fresh, poor visible porosity, no shows noted.

**Kinderhook Shale 3953 (-2020)**

Shale: gray green brick red, dense waxy, micaceous, abundant chalk and silt, scattered sand grains: clear rounded, abundant varicolored cherts, sharp fresh, samples was red.

**Viola 3991 (-2058)**

Limestone: cream tan brown, micro to fine xln, trace fossils, dense xln matrix, trace dolomite. abundant shales as above, trace white sharp chert.

Dolomite: cream tan, micro to finexln, dense xln matrix, sucrosic grain-like texture, fair to good interxn porosity, good show free oil and gas under lamp and when broken, faint odor, light streaming cut, with scattered chert: bone-white cream sharp fresh, trace tripolitic texture, slight edge staining and show oil on break.

4026' Dolomite as above, decrease in overall limestone and chert, 95% dolomite facies. Slight decrease in show.

Dolomite, cream tan microxln, dense xln matrix, scattered poor to fair interxn porosity, decrease in show, increase in chert: bone white, fresh sharp, trace dead black edge stain.

Dolomite as above with increasing chert %.

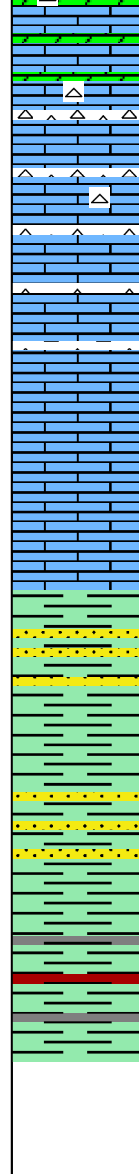
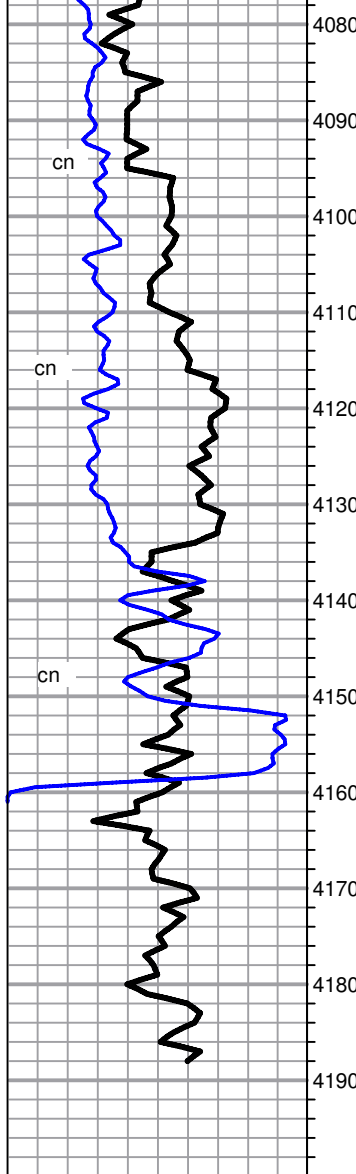
Dolomite: white cream, micro to finexln, scattered poor to fair interxn porosity, sandy sucrosic texture, chalky, abundant secondary rexln, very poor visible porosity, slight decrease in chert as above, no shows noted.

wt: 9.3  
pH: 9.5  
WL: 9.6  
CHL: 7,100  
LCM: Tr  
DMC: \$395.84  
CMC: \$7,750.13

Mud Co Mud  
Chk 3991'  
12.18.16  
Vis: 62  
wt: 9.4  
pH: 9.5  
WL: 10.0  
CHL: 6,600  
LCM: Tr  
DMC: \$384.82  
CMC: \$8,134.95

Total Gas (units) 50  
Please note gas dectector is partially frozen and is not reading the gas with 100% accuracy

SC Total Gas (units) 1000  
contaminated mud system from dst



Limestone: white cream tan, micro to finexln, dense grainy matrix, well cemented, poor to fair interxln porosity, no shows noted, decrease in chert.

Limestone as above, with scattered chert: white cream, sharp fresh, dead black edge stain, no other shows noted.

Limestone: cream gray tan, microxln, dense rexln matrix, chalky, decrease in chert, no shows noted.

**Simpson Shale 4133 (-2200)**

Shale: green gray, blocky, dense, waxy.

Shales as above with increasing sandstone: clear quartz, poorly sorted, rounded, mostly dense chalky matrix, sub-friable, scattered edge staining and light free oil in 1 or 2 clusters, no other shows noted.

Sandstone: clear opaque, fine to medium grained, poorly sorted, mostly rounded, dense chalky calcareous matrix, dense, trace edge stain and trace free oil when broken, no fl or odor.

Shale: green gray red, blocky, dense, pyritic, waxy.

**RTD 4188' (-2255)**

Mud Co Mud Chk  
4,044  
12.19.16  
Vis: 51  
wt: 8.9  
pH: 9.0  
WL: 10.2  
CHL: 8,300  
LCM: Tr  
DMC: \$1,115.19  
CMC: \$9,250.14



# DRILL STEM TEST REPORT

EDISON OPERATING COMPANY LLC

26-24S-13W STAFFORD

8100 EAST 22nd STREET NORTH BUILDING 1900  
WICHITA, KANSAS 67226

PAGE 1-26

Job Ticket: 01140

DST#: 1

ATTN: ADAM KENNEDY

Test Start: 2016.12.18 @ 17:36:00

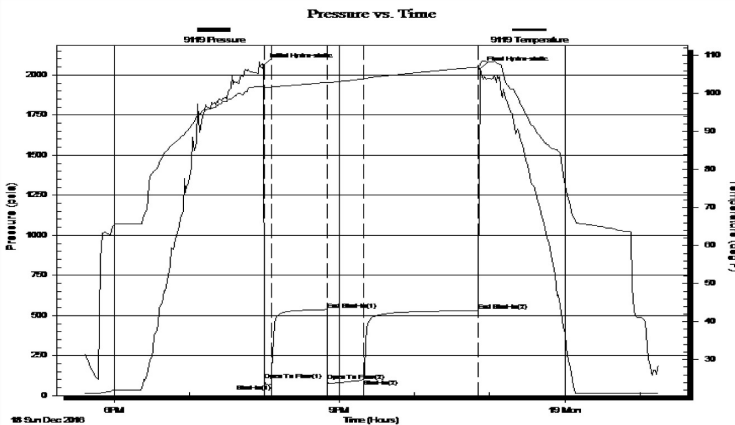
**GENERAL INFORMATION:**

Formation: **VIOLA**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:01:00  
 Time Test Ended: 01:21:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: GENE BUDIG  
 Unit No: 1 65  
 Interval: **3994.00 ft (KB) To 4026.00 ft (KB) (TVD)**  
 Reference Elevations: 1933.00 ft (KB)  
 Total Depth: 4026.00 ft (KB) (TVD)  
 1923.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

**Serial #: 9119**

Press@RunDepth: 530.96 psia @ ft (KB) Capacity: psia  
 Start Date: 2016.12.18 End Date: 2016.12.19 Last Calib.: 1899.12.30  
 Start Time: 17:36:00 End Time: 01:15:00 Time On Btm: 2016.12.18 @ 19:59:00  
 Time Off Btm: 2016.12.18 @ 22:52:00

TEST COMMENT: 1st OPENING 5 MINUTES STRONG BLOW BOTTOM OF THE BUCKET IN 1 MINUTE  
 1st SHUT-IN 45 MINUTES-GOOD BLOW BACK  
 2nd OPENING 30 MINUTES STRONG BLOW GAS TO SURFACE IN 5 MINUTES GAUGED 29.9 mcf  
 2nd SHUT-IN 90 MINUTES GOOD BLOW BACK



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2061.94	102.01	Initial Hydro-static
1	95.34	101.70	Open To Flow (1)
7	71.97	101.65	Shut-In(1)
51	537.35	103.02	End Shut-In(1)
52	92.83	102.90	Open To Flow (2)
81	100.49	103.89	Shut-In(2)
172	530.96	106.99	End Shut-In(2)
173	2038.94	107.42	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
90.00	oil cut gassy mud 15 oil 85 mud	1.26
60.00	slightly mud cut gassy oil	0.84
0.00	15 gas 65 oil 10 water 10 mud	0.00

**Gas Rates**

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



## DRILL STEM TEST REPORT

Prepared For: **EDISON OPERATING COMPANY LLC**

8100 EAST 22nd STREET NORTH BUILDING  
1900 WICHITA, KANSAS 67226

ATTN: ADAM KENNEDY

**PAGE 1-26**

**26-24S-13W STAFFORD**

Start Date: 2016.12.18 @ 17:36:00

End Date: 2016.12.19 @ 01:21:00

Job Ticket #: 01140                      DST #: 1

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

Printed: 2016.12.19 @ 01:36:52



# DRILL STEM TEST REPORT

EDISON OPERATING COMPANY LLC

26-24S-13W STAFFORD

8100 EAST 22nd STREET NORTH BUILDING 1900  
WICHITA, KANSAS 67226

PAGE 1-26

Job Ticket: 01140

DST#: 1

ATTN: ADAM KENNEDY

Test Start: 2016.12.18 @ 17:36:00

## GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:01:00

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1 65

Interval: **3994.00 ft (KB) To 4026.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4026.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

## Serial #: 9119

Press@RunDepth: 530.96 psia @ ft (KB)

Capacity: psia

Start Date: 2016.12.18

End Date: 2016.12.19

Last Calib.: 1899.12.30

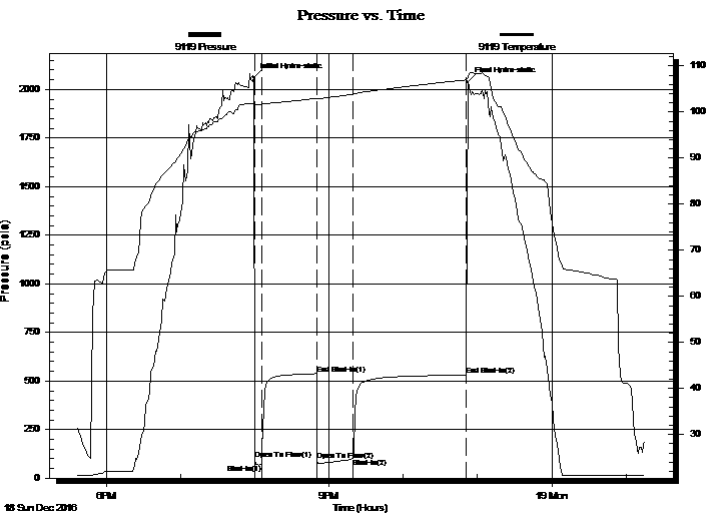
Start Time: 17:36:00

End Time: 01:15:00

Time On Btm: 2016.12.18 @ 19:59:00

Time Off Btm: 2016.12.18 @ 22:52:00

TEST COMMENT: 1st OPENING 5 MINUTES STRONG BLOW BOTTOM OF THE BUCKET IN 1 MINUTE  
1st SHUT-IN 45 MINUTES-GOOD BLOW BACK  
2nd OPENING 30 MINUTES STRONG BLOW GAS TO SURFACE IN 5 MINUTES GAUGED 29.9 mcf  
2nd SHUT-IN 90 MINUTES GOOD BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2061.94	102.01	Initial Hydro-static
1	95.34	101.70	Open To Flow (1)
7	71.97	101.65	Shut-In(1)
51	537.35	103.02	End Shut-In(1)
52	92.83	102.90	Open To Flow (2)
81	100.49	103.89	Shut-In(2)
172	530.96	106.99	End Shut-In(2)
173	2038.94	107.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	oil cut gassy mud 15 oil 85 mud	1.26
60.00	slightly mud cut gassy oil	0.84
0.00	15 gas 65 oil 10 water 10 mud	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

EDISON OPERATING COMPANY LLC

26-24S-13W STAFFORD

8100 EAST 22nd STREET NORTH BUILDING 1900  
WICHITA, KANSAS 67226

PAGE 1-26

Job Ticket: 01140

DST#: 1

ATTN: ADAM KENNEDY

Test Start: 2016.12.18 @ 17:36:00

## GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:01:00

Time Test Ended: 01:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: GENE BUDIG

Unit No: 1 65

Interval: **3994.00 ft (KB) To 4026.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4026.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

## Serial #: 9139

Press@RunDepth: 547.44 psia @ ft (KB)

Capacity: psia

Start Date: 2016.12.18

End Date:

2016.12.19

Last Calib.:

1899.12.30

Start Time: 17:36:00

End Time:

01:15:00

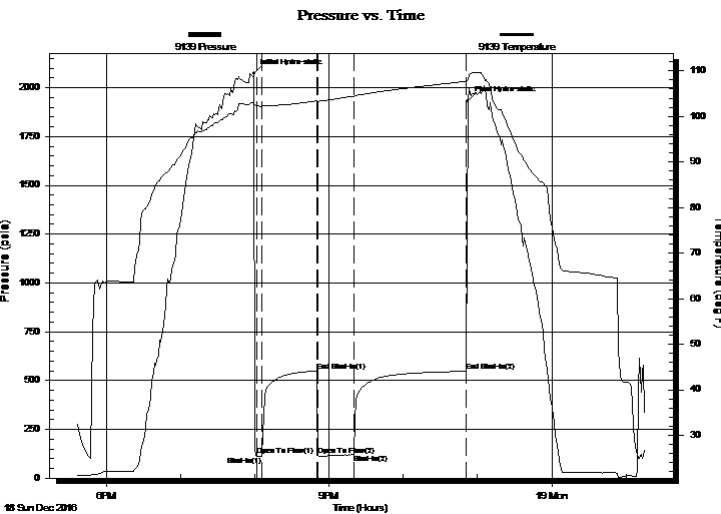
Time On Btm:

2016.12.18 @ 19:59:30

Time Off Btm:

2016.12.18 @ 22:52:00

TEST COMMENT: 1st OPENING 5 MINUTES STRONG BLOW BOTTOM OF THE BUCKET IN 1 MINUTE  
1st SHUT-IN 45 MINUTES-GOOD BLOW BACK  
2nd OPENING 30 MINUTES STRONG BLOW GAS TO SURFACE IN 5 MINUTES GAUGED 29.9 mcf  
2nd SHUT-IN 90 MINUTES GOOD BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2072.74	103.00	Initial Hydro-static
2	114.87	102.34	Open To Flow (1)
6	110.86	102.22	Shut-In(1)
51	549.51	103.41	End Shut-In(1)
52	119.16	103.33	Open To Flow (2)
81	124.40	104.44	Shut-In(2)
172	547.44	107.70	End Shut-In(2)
173	1933.94	108.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	oil cut gassy mud 15 oil 85 mud	1.26
60.00	slightly mud cut gassy oil	0.84
0.00	15 gas 65 oil 10 water 10 mud	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

EDISON OPERATING COMPANY LLC

26-24S-13W STAFFORD

8100 EAST 22nd STREET NORTH BUILDING 1900  
WICHITA, KANSAS 67226

PAGE 1-26

Job Ticket: 01140

DST#: 1

ATTN: ADAM KENNEDY

Test Start: 2016.12.18 @ 17:36:00

## Tool Information

Drill Pipe:	Length: 3990.00 ft	Diameter: 3.80 inches	Volume: 55.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 55.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3994.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3970.00	
Hydraulic tool	5.00			3975.00	
Jars	7.00			3982.00	
Safety Joint	2.00		Fluid	3984.00	
Top Packer	5.00			3989.00	
Packer	5.00			3994.00	29.00 Bottom Of Top Packer
Anchor	27.00			4021.00	
Recorder	0.00	9119	Inside	4021.00	
Recorder	0.00	91398	Outside	4021.00	
Bullnose	5.00			4026.00	32.00 Anchor Tool
<b>Total Tool Length:</b>	<b>61.00</b>				





# DRILL STEM TEST REPORT

FLUID SUMMARY

EDISON OPERATING COMPANY LLC

26-24S-13W STAFFORD

8100 EAST 22nd STREET NORTH BUILDING 1900  
WICHITA, KANSAS 67226

PAGE 1-26

Job Ticket: 01140

DST#: 1

ATTN: ADAM KENNEDY

Test Start: 2016.12.18 @ 17:36:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 62.00 sec/qt  
Water Loss: 10.00 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6600.00 ppm  
Filter Cake: 1.00 inches

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

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	oil cut gassy mud 15 oil 85 mud	1.262
60.00	slightly mud cut gassy oil	0.842
0.00	15 gas 65 oil 10 w ater 10 mud	0.000

Total Length: 150.00 ft Total Volume: 2.104 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

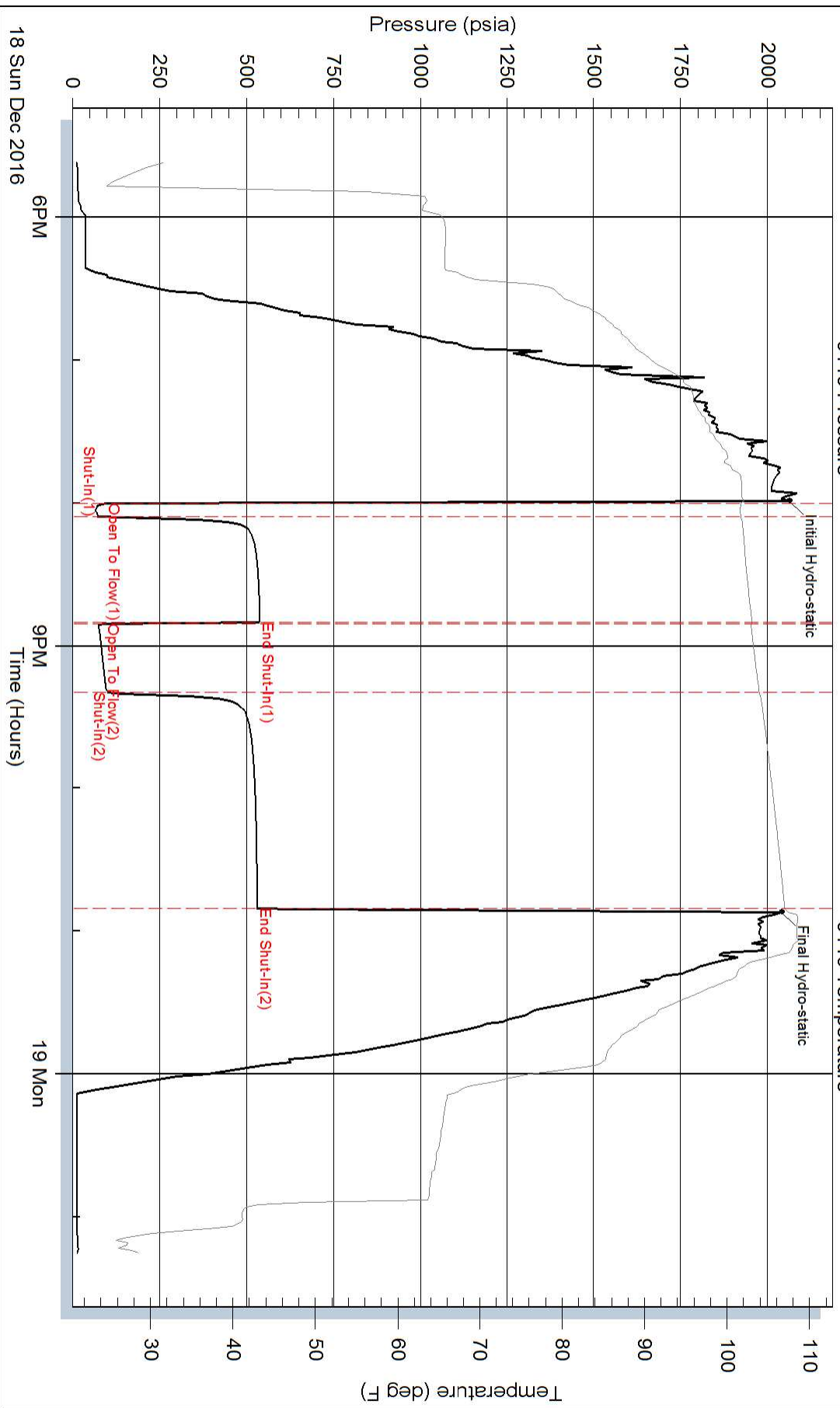
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time

