

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	DUDREY 1-23
Doc ID	1453070

All Electric Logs Run

DUCP
DI
MICRO
SONIC



DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 E.22nd Str.N. Bldg 1900
Wichita,Kansas 67226

ATTN: Adam Kennedy

Dudrey #1-23

23-25s-13w Stafford

Start Date: 2018.12.16 @ 17:00:00

End Date: 2018.12.16 @ 22:03:00

Job Ticket #: 01058 DST #: 1

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

Printed: 2018.12.16 @ 22:21:57



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01058

DST#: 1

ATTN: Adam Kennedy

Test Start: 2018.12.16 @ 17:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:44:00

Time Test Ended: 22:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budigh

Unit No: 1

Interval: **3790.00 ft (KB) To 3804.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 3804.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1176.25 psig @ 3799.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.12.16

End Date: 2018.12.16

Last Calib.: 2018.12.16

Start Time: 17:00:00

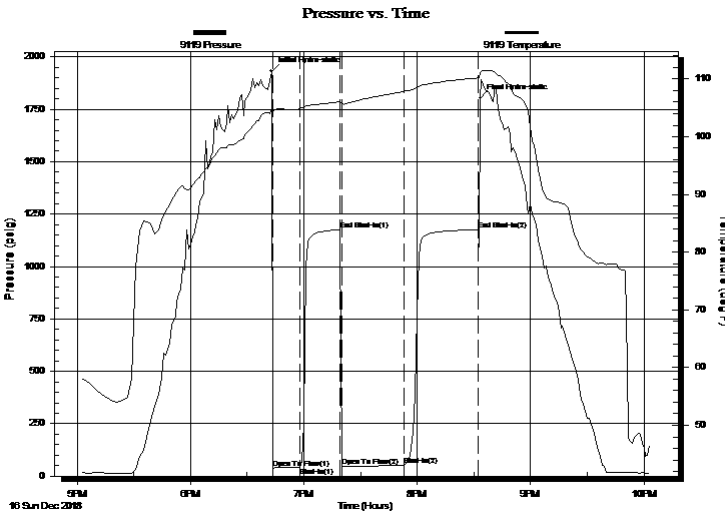
End Time: 22:03:29

Time On Btm: 2018.12.16 @ 18:43:00

Time Off Btm: 2018.12.16 @ 20:33:30

TEST COMMENT: 1st Opening 15 minutes weak blow for 1 minute and died
1st Shut-In 30 Minutes
2st Opening 30 nMinutes weak blow for 1 minute and died
2nd Shut-In 45 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.65	104.67	Initial Hydro-static
1	39.02	104.40	Open To Flow (1)
15	42.92	104.92	Shut-In(1)
36	1175.91	106.04	End Shut-In(1)
37	44.62	105.70	Open To Flow (2)
70	53.24	107.83	Shut-In(2)
110	1176.25	110.20	End Shut-In(2)
111	1803.14	111.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01058

DST#: 1

ATTN: Adam Kennedy

Test Start: 2018.12.16 @ 17:00:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:44:00

Time Test Ended: 22:03:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budigh

Unit No: 1

Interval: **3790.00 ft (KB) To 3804.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 3804.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1158.87 psig @ 3799.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.12.16 End Date: 2018.12.16

Last Calib.: 2018.12.16

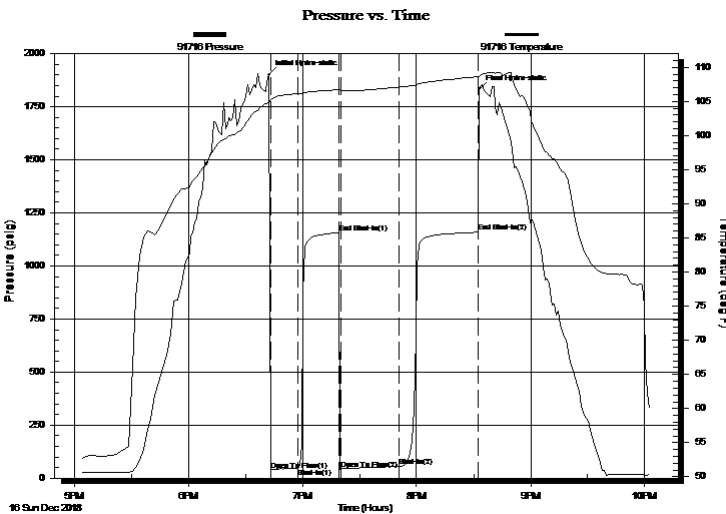
Start Time: 17:00:00 End Time: 22:03:00

Time On Btm: 2018.12.16 @ 18:42:30

Time Off Btm: 2018.12.16 @ 20:33:00

TEST COMMENT: 1st Opening 15 minutes weak blow for 1 minute and died
1st Shut-In 30 Minutes
2st Opening 30 nMinutes weak blow for 1 minute and died
2nd Shut-In 45 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.16	104.84	Initial Hydro-static
1	36.50	105.21	Open To Flow (1)
15	46.33	106.07	Shut-In(1)
37	1156.41	106.72	End Shut-In(1)
38	41.53	106.66	Open To Flow (2)
69	54.95	107.09	Shut-In(2)
110	1158.87	108.63	End Shut-In(2)
111	1832.39	108.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01058

DST#: 1

ATTN: Adam Kennedy

Test Start: 2018.12.16 @ 17:00:00

Tool Information

Drill Pipe:	Length: 3774.00 ft	Diameter: 3.80 inches	Volume: 52.94 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 52.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3790.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	44.00 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			3765.00	
Hydraulic tool	5.00			3770.00	
Jars	5.00			3775.00	
Safety Joint	5.00			3780.00	
Packer	5.00			3785.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	3790.00	
Anchor	9.00			3799.00	
Recorder	0.00	9119	Inside	3799.00	
Recorder	0.00	91716	Outside	3799.00	
Bullnose	5.00			3804.00	14.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01058

DST#: 1

ATTN: Adam Kennedy

Test Start: 2018.12.16 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 51.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7100.00 ppm

Filter Cake: 0.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

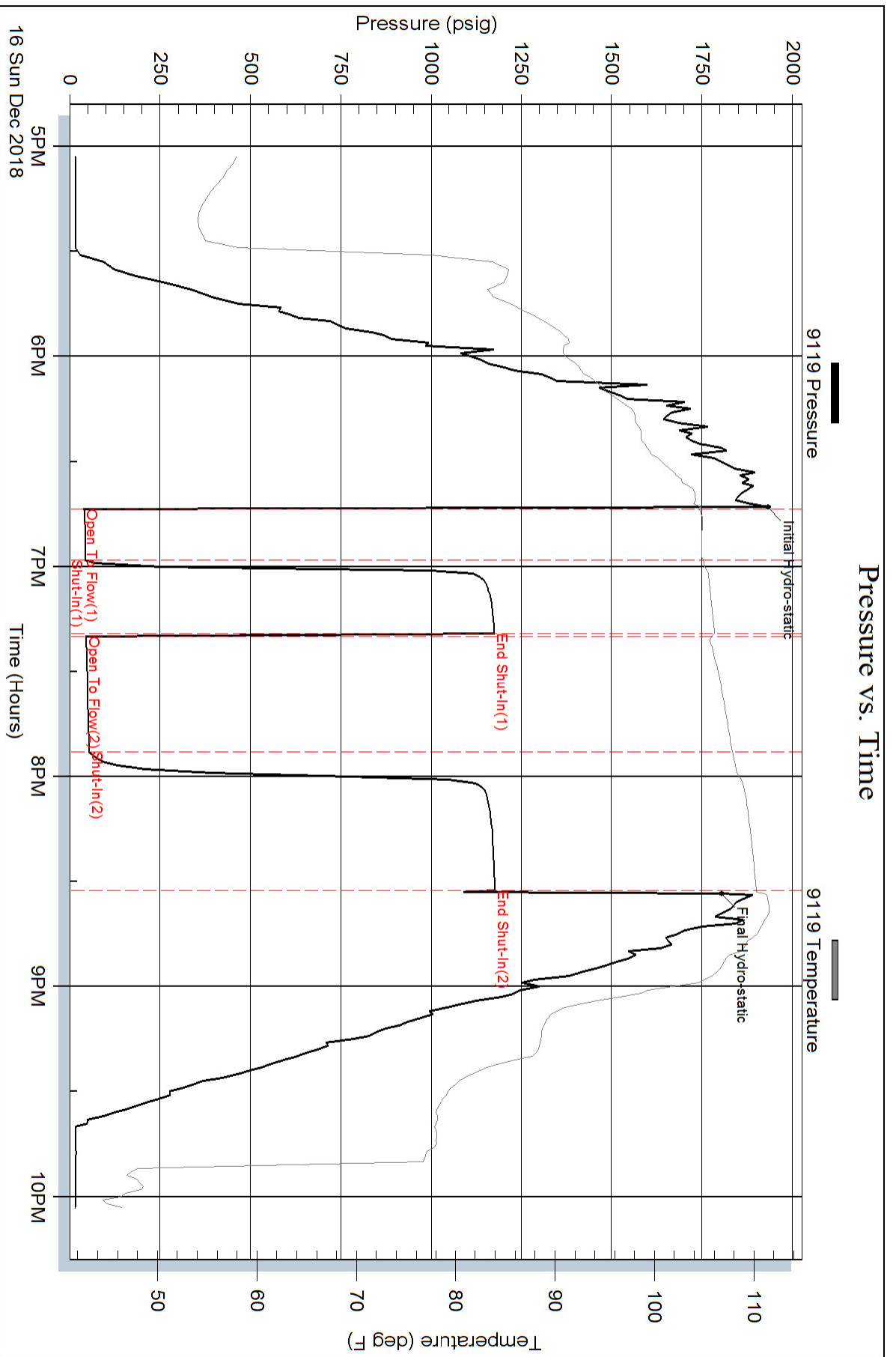
Serial #:

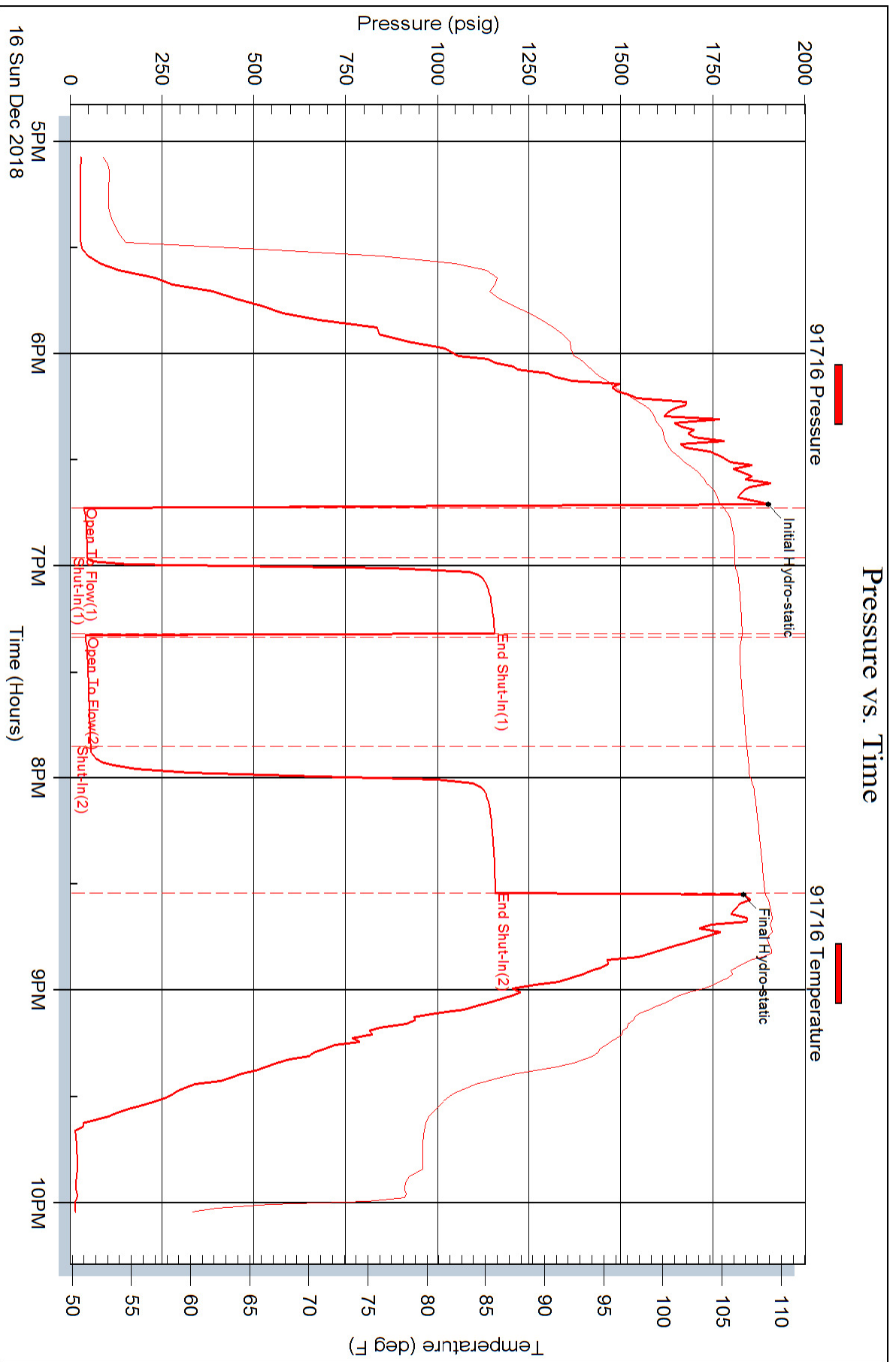
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 E.22nd Str.N. Bldg 1900
Wichita,Kansas 67226

ATTN: Adam Kennedy

Dudrey #1-23

23-25s-13w Stafford

Start Date: 2018.12.18 @ 03:30:00

End Date: 2018.12.18 @ 09:36:00

Job Ticket #: 01059 DST #: 2

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

Printed: 2018.12.18 @ 09:51:19



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01059

DST#: 2

ATTN: Adam Kennedy

Test Start: 2018.12.18 @ 03:30:00

GENERAL INFORMATION:

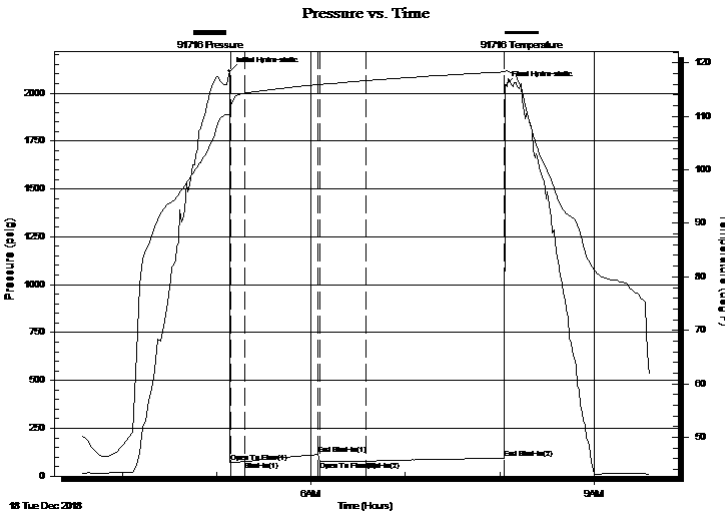
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:10:00
 Time Test Ended: 09:36:00
 Interval: **4060.00 ft (KB) To 4135.00 ft (KB) (TVD)**
 Total Depth: 4135.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1933.00 ft (KB)
 1923.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 91716 Outside

Press@RunDepth: 94.28 psig @ 4130.21 ft (KB) Capacity: 5000.00 psig
 Start Date: 2018.12.18 End Date: 2018.12.18 Last Calib.: 2018.12.18
 Start Time: 03:30:00 End Time: 09:35:30 Time On Btm: 2018.12.18 @ 05:08:00
 Time Off Btm: 2018.12.18 @ 08:03:30

TEST COMMENT: 1st Opening 15 minutes weak blow for 7 minutes and died
 1 st shut-in 45 minutes
 2nd opening 30 minutes
 2nd Shut-In 90 Minutes

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.26	110.58	Initial Hydro-static
1	70.36	111.34	Open To Flow (1)
10	75.63	114.33	Shut-In(1)
57	112.69	115.93	End Shut-In(1)
58	77.86	115.95	Open To Flow (2)
87	79.17	116.67	Shut-In(2)
175	94.28	118.31	End Shut-In(2)
176	2039.23	118.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	dRILLING mUD	0.14

Gas Rates

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



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01059

DST#: 2

ATTN: Adam Kennedy

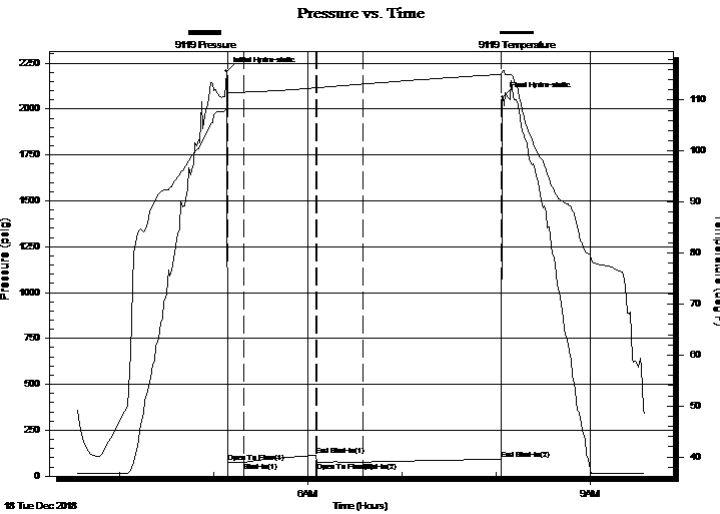
Test Start: 2018.12.18 @ 03:30:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:10:00
 Time Test Ended: 09:36:00
 Interval: **4060.00 ft (KB) To 4135.00 ft (KB) (TVD)**
 Total Depth: 4135.00 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: 1933.00 ft (KB)
 1923.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 92.39 psig @ 4130.21 ft (KB) Capacity: 5000.00 psig
 Start Date: 2018.12.18 End Date: 2018.12.18 Last Calib.: 2018.12.18
 Start Time: 03:30:00 End Time: 09:35:30 Time On Btm: 2018.12.18 @ 05:08:00
 Time Off Btm: 2018.12.18 @ 08:04:30

TEST COMMENT: 1st Opening 15 minutes weak blow for 7 minutes and died
 1 st shut-in 45 minutes
 2nd opening 30 minutes
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.98	108.03	Initial Hydro-static
1	74.96	111.23	Open To Flow (1)
11	76.33	111.54	Shut-In(1)
57	113.68	112.42	End Shut-In(1)
58	76.95	112.42	Open To Flow (2)
88	77.71	113.16	Shut-In(2)
176	92.39	115.03	End Shut-In(2)
177	2065.21	115.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	dRILLING mUD	0.14

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01059

DST#: 2

ATTN: Adam Kennedy

Test Start: 2018.12.18 @ 03:30:00

Tool Information

Drill Pipe:	Length: 4056.00 ft	Diameter: 3.80 inches	Volume: 56.90 bbl	Tool Weight:	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:	94000.00 lb
			<u>Total Volume: 56.90 bbl</u>	Tool Chased	8.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	4060.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	75.21 ft				
Tool Length:	105.21 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4035.00	
Hydraulic tool	5.00			4040.00	
Jars	5.00			4045.00	
Safety Joint	5.00			4050.00	
Packer	5.00			4055.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	4060.00	
Anchor	5.00			4065.00	
Change Over Sub	0.75			4065.75	
Drill Pipe	31.71			4097.46	
Change Over Sub	0.75		Inside	4098.21	
Anchor	32.00			4130.21	
Recorder	0.00	9119	Inside	4130.21	
Recorder	0.00	91716	Outside	4130.21	
Bullnose	5.00			4135.21	75.21 Bottom Packers & Anchor

Total Tool Length: 105.21



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01059

DST#: 2

ATTN: Adam Kennedy

Test Start: 2018.12.18 @ 03:30:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.40 in³
Resistivity: ohm.m
Salinity: 7300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	dRILLING mUD	0.140

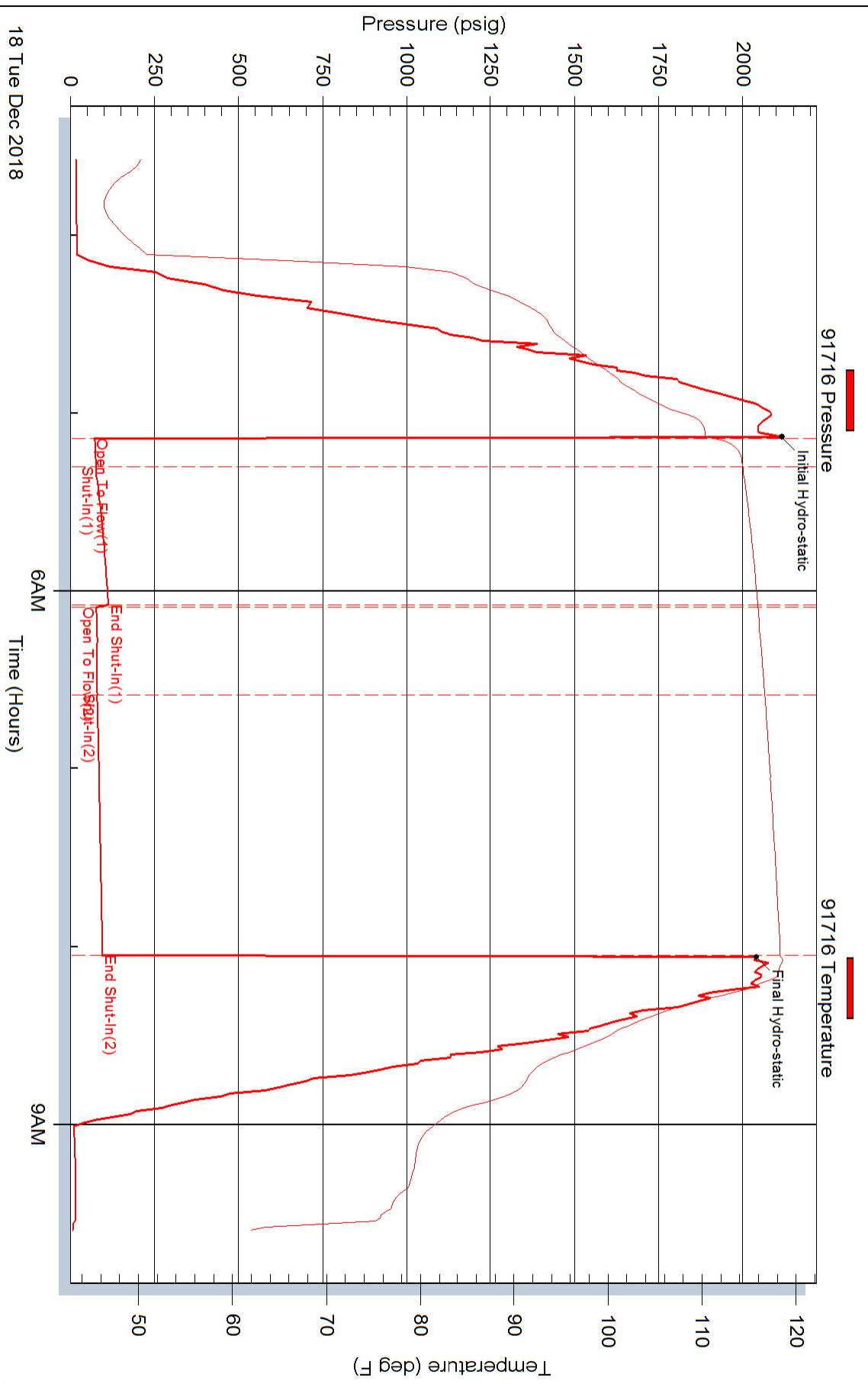
Total Length: 10.00 ft Total Volume: 0.140 bbl

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

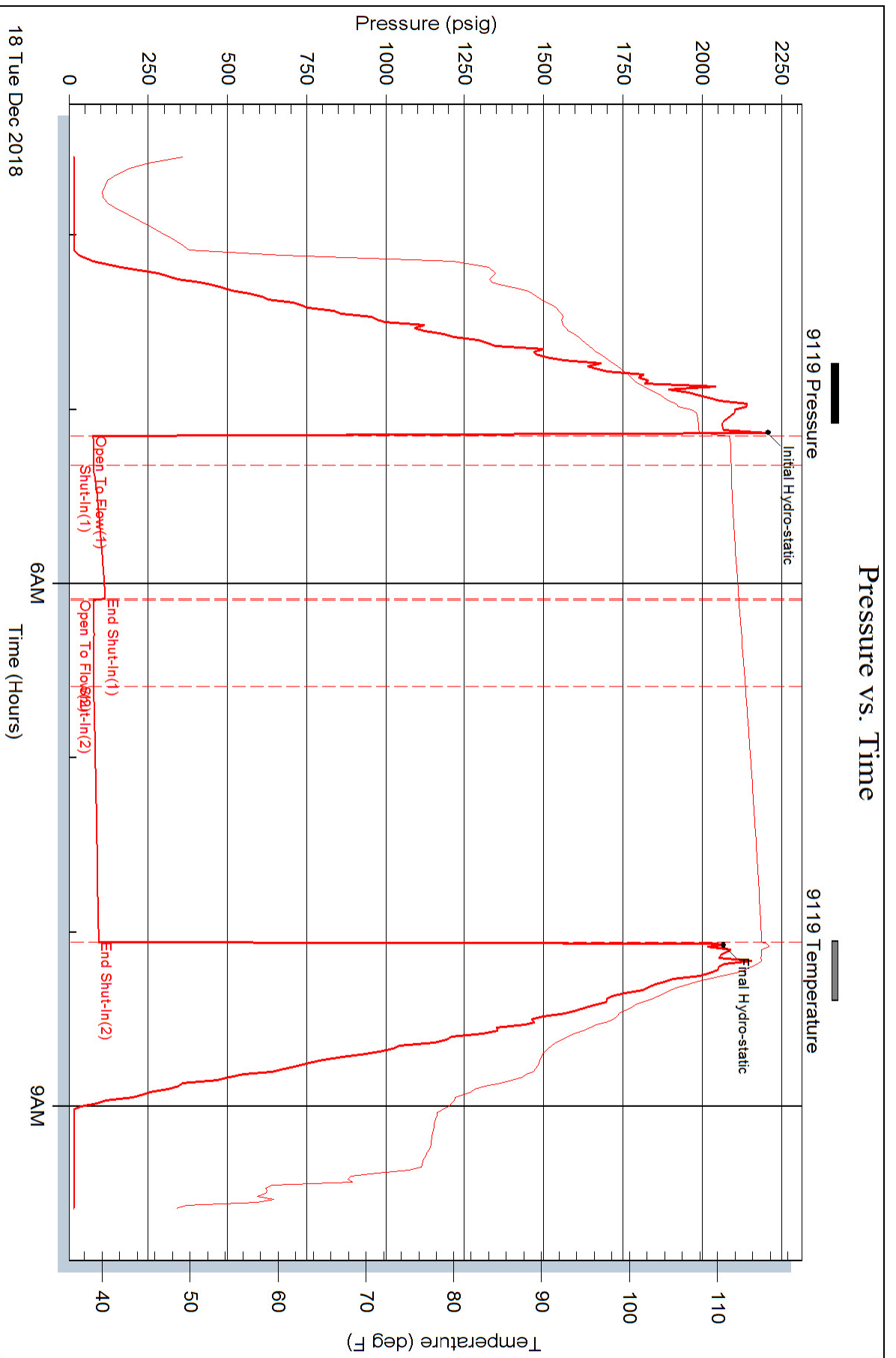
Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Edison Operating Company LLC**

8100 E.22nd Str.N. Bldg 1900
Wichita,Kansas 67226

ATTN: Adam Kennedy

Dudrey #1-23

23-25s-13w Stafford

Start Date: 2018.12.19 @ 04:55:00

End Date: 2018.12.19 @ 15:36:00

Job Ticket #: 01060 DST #: 3

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

Printed: 2018.12.19 @ 15:53:42



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01060

DST#: 3

ATTN: Adam Kennedy

Test Start: 2018.12.19 @ 04:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:00:00

Time Test Ended: 15:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **4247.00 ft (KB) To 4267.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4267.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1504.33 psig @ 4262.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.12.19

End Date:

2018.12.19

Last Calib.:

2018.12.19

Start Time: 04:55:00

End Time:

15:34:00

Time On Btm:

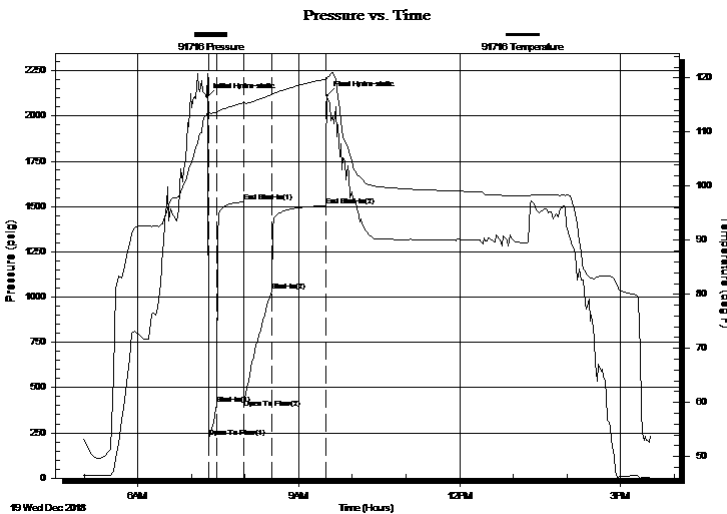
2018.12.19 @ 07:17:30

Time Off Btm:

2018.12.19 @ 09:31:30

TEST COMMENT: 1st Opening 10 Minutes Strong blow built to the bottom of the bucket in 1 minute
1st Shut-In 30 Minutes good bnlow back
2nd Opening 30 Minutes strong blow gas to surface in 25 minutes
2nd Shut-In 60 Minutes good blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.35	113.35	Initial Hydro-static
2	228.34	113.55	Open To Flow (1)
11	405.88	113.65	Shut-In(1)
41	1525.71	115.43	End Shut-In(1)
42	433.53	115.43	Open To Flow (2)
73	1032.30	116.91	Shut-In(2)
133	1504.33	119.78	End Shut-In(2)
134	2109.80	119.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface on the 2nd opening	0.00
480.00	clean gassy Oil 20% Gas 80% Oil	6.73
300.00	OIL & gAS CUT w Ater	4.21
0.00	5 % Gas 30% Oil 5% Mud 60% Water	0.00
300.00	Oil Cut Water	4.21
0.00	5% Gas 25% Oil % 5% Mud 65% Water	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01060

DST#: 3

ATTN: Adam Kennedy

Test Start: 2018.12.19 @ 04:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:00:00

Time Test Ended: 15:36:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: **4247.00 ft (KB) To 4267.00 ft (KB) (TVD)**

Reference Elevations: 1933.00 ft (KB)

Total Depth: 4267.00 ft (KB) (TVD)

1923.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **9119** Inside

Press@RunDepth: 1511.79 psig @ 4262.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2018.12.19

End Date: 2018.12.19

Last Calib.: 2018.12.19

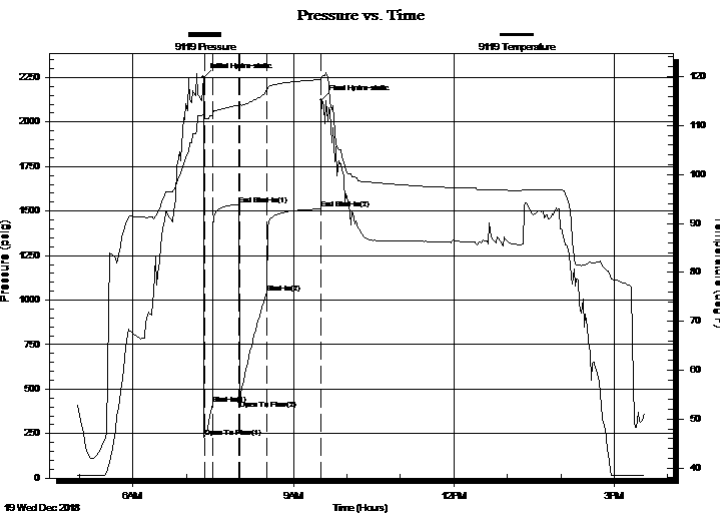
Start Time: 04:55:00

End Time: 15:34:30

Time On Btm: 2018.12.19 @ 07:19:00

Time Off Btm: 2018.12.19 @ 09:31:30

TEST COMMENT: 1st Opening 10 Minutes Strong blow built to the bottom of the bucket in 1 minute
1st Shut-In 30 Minutes good bnlow back
2nd Opening 30 Minutes strong blow gas to surface in 25 minutes
2nd Shut-In 60 Minutes good blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.12	112.19	Initial Hydro-static
1	229.35	111.44	Open To Flow (1)
10	414.94	111.96	Shut-In(1)
40	1535.64	114.21	End Shut-In(1)
41	437.89	114.09	Open To Flow (2)
72	1041.61	117.15	Shut-In(2)
132	1511.79	119.39	End Shut-In(2)
133	2124.33	120.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface on the 2nd opening	0.00
480.00	clean gassy Oil 20% Gas 80% Oil	6.73
300.00	OIL & gAS CUT w Ater	4.21
0.00	5 % Gas 30% Oil 5% Mud 60% Water	0.00
300.00	Oil Cut Water	4.21
0.00	5% Gas 25% Oil % 5% Mud 65% Water	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01060

DST#: 3

ATTN: Adam Kennedy

Test Start: 2018.12.19 @ 04:55:00

Tool Information

Drill Pipe:	Length: 4247.00 ft	Diameter: 3.80 inches	Volume: 59.57 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: 60000.00 lb
			<u>Total Volume: 59.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial lb
Depth to Top Packer:	4247.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4222.00	
Hydraulic tool	5.00			4227.00	
Jars	5.00			4232.00	
Safety Joint	5.00			4237.00	
Packer	5.00			4242.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	4247.00	
Anchor	15.00			4262.00	
Recorder	0.00	9119	Inside	4262.00	
Recorder	0.00	91716	Outside	4262.00	
Bullnose	5.00			4267.00	20.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Edison Operating Company LLC

23-25s-13w Stafford

8100 E.22nd Str.N. Bldg 1900
Wichita, Kansas 67226

Dudrey #1-23

Job Ticket: 01060

DST#: 3

ATTN: Adam Kennedy

Test Start: 2018.12.19 @ 04:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 75.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 9000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 38 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

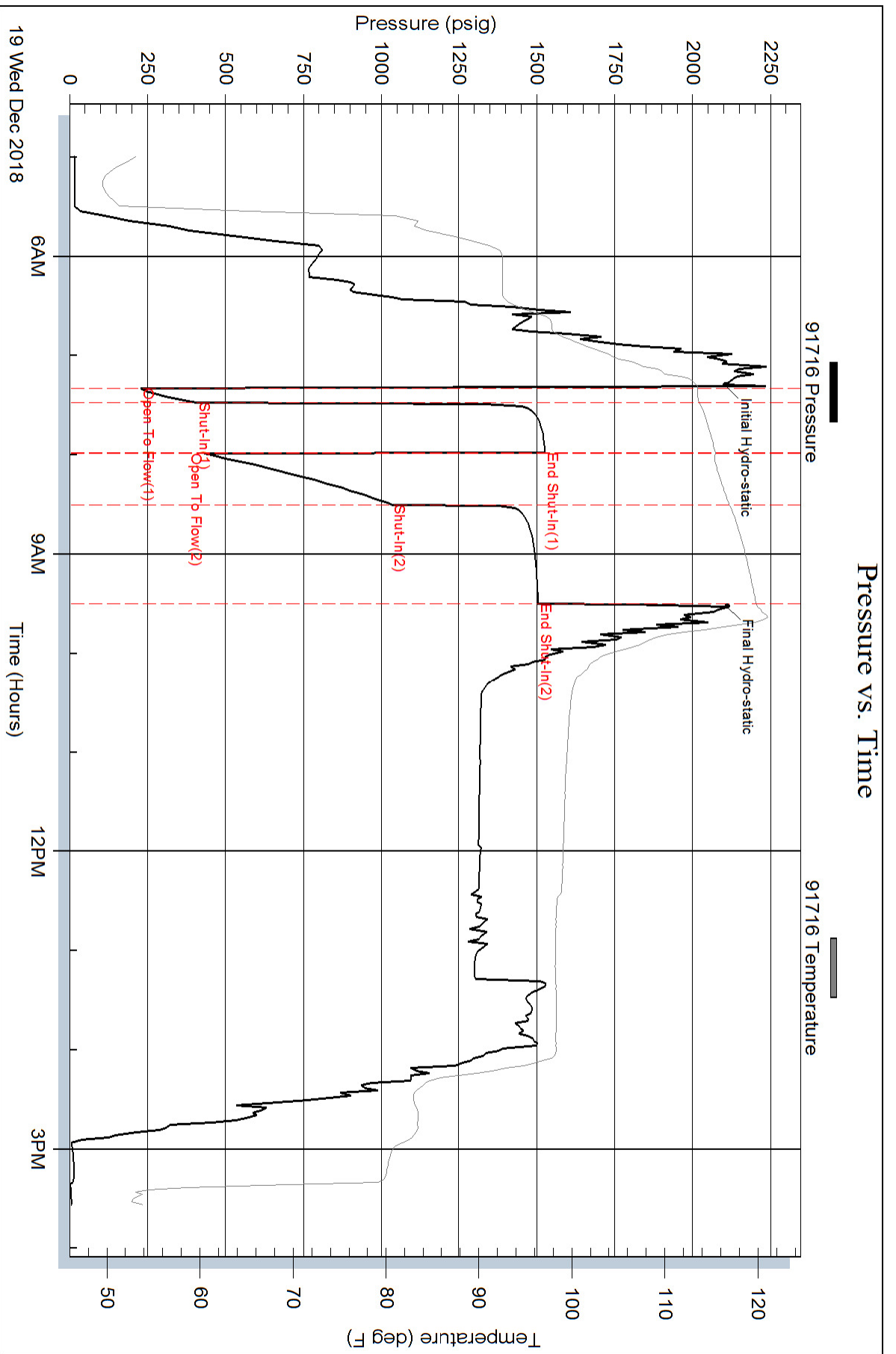
Length ft	Description	Volume bbl
0.00	Gas to surface on the 2nd opening	0.000
480.00	clean gassy Oil 20% Gas 80% Oil	6.733
300.00	OIL & gAS CUT w Ater	4.208
0.00	5 % Gas 30% Oil 5% Mud 60% Water	0.000
300.00	Oil Cut Water	4.208
0.00	5% Gas 25% Oil % 5% Mud 65% Water	0.000
300.00	Oil cut w ater	4.208
0.00	5% Gas 10% Oil 5% Mud 80%Water	0.000
1470.00	Clean Gassy Oil 20% Gas 80%Oil	20.620
0.00	Gravity 38 Corrected	0.000
0.00	Chlorides 122,000	0.000

Total Length: 2850.00 ft Total Volume: 39.977 bbl

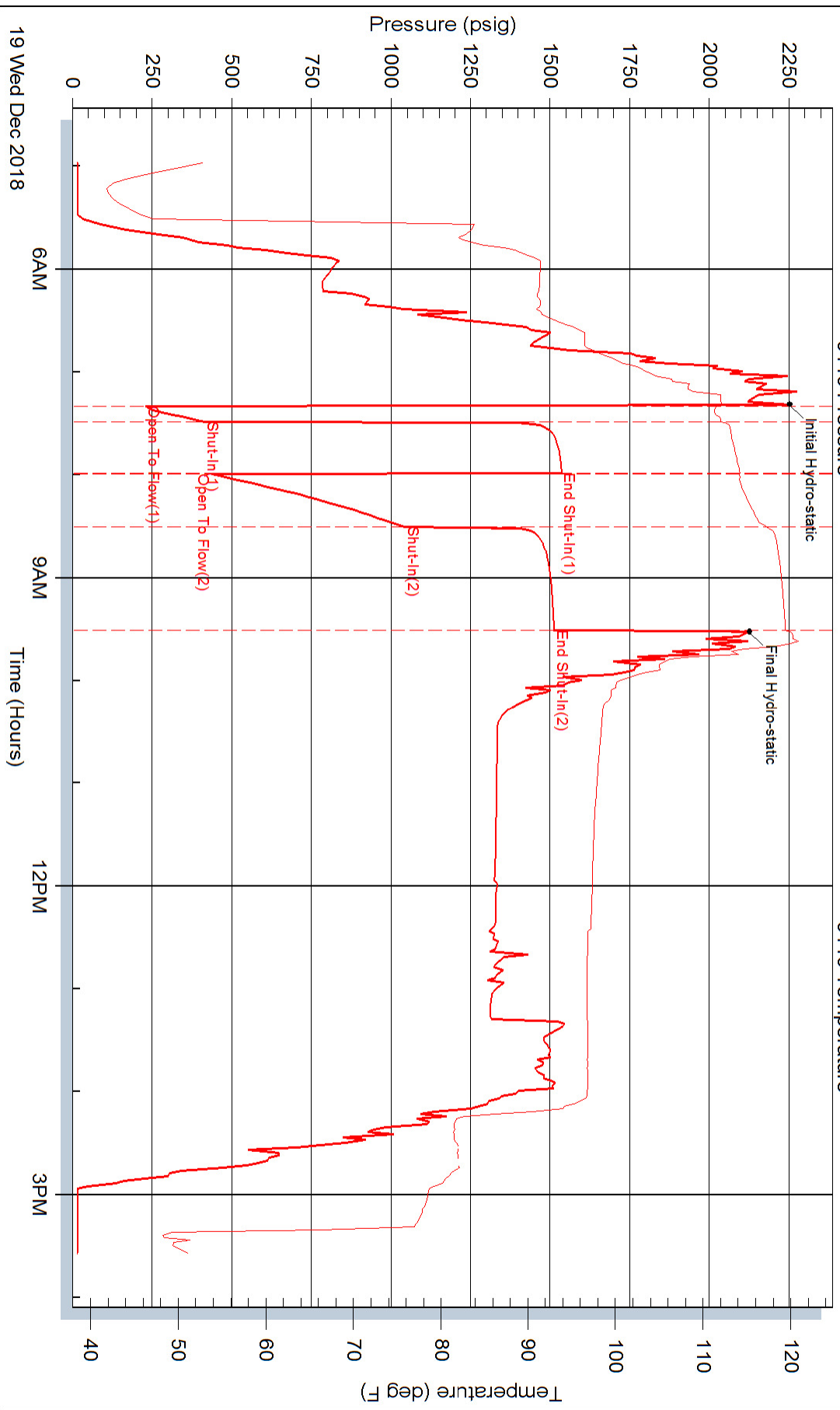
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Reversed Oil Out



Pressure vs. Time





EDISON OPERATING COMPANY_{LLC}

Scale 1:240 Imperial

Well Name: Dudrey #1-23
 Surface Location: Sec. 23 - T25S - R13W
 Bottom Location:
 API: 15-185-24035-0000
 License Number: 34434
 Spud Date: 12/10/2018 Time: 3:00 PM
 Region: Stafford County
 Drilling Completed: 12/19/2018 Time: 11:00 PM
 Surface Coordinates: 911' FNL & 1590' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1923.00ft
 K.B. Elevation: 1933.00ft
 Logged Interval: 0.00ft To: 4345.00ft
 Total Depth: 4350.00ft
 Formation: Arbuckle
 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: Dudrey #1-23
 Location: Sec. 23 - T25S - R13W
 API: 15-185-24035-0000
 Pool: Wildcat Field:
 State: Kansas Country: USA

LOGGED BY



EDISON OPERATING COMPANY_{LLC}

Company: Edison Operating Company LLC
 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 consulting the geologic log, positive drill stem tests, and electric logs, it was agreed upon by all parties to run 5 1/2" production casing to further evaluate the Dudrey #1-23 for its ability to produce commercial quantities of oil and gas.

Respectfully submitted,

Adam T. Kennedy

GENERAL INFORMATION

Service Companies

Drilling Contractor: Southwind Drilling - Rig #1	Drilling Fluid: Mud-Co/Service Mud Inc.
Tool Pusher: Wes Pfaff	Engineers: Brad Bortz
Daylight Driller: Travis Epp	Jason Whiting
Evening Driller:	
Morning Driller:	Logging Company: Eli Wireline
	Engineer: Gus Pfanenstiel
Gas Detector: Bluestem Environmental	Logs Ran: DI, CDNL, Micro, Sonic

Engineer: Keith Heavis
 Unit: 5258'
 Operational By: 1700'

Testing Company: Eagle Testers
 Tester: Gene Budig

Deviation Survey	
Depth	Survey
435'	1/4 deg
3804'	3/4 deg
4350'	1 deg

Pipe Strap	
Depth	Pipe Strap
3804'	1.04 LTB

Bit Record								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	JZ	RR	-	0	435	435	6.25
2	7 7/8	JZ	HA - 15	-	435	4350	3915	130.56

Surface Casing	
12.11.18	Ran 10 joints new 23# 8 5/8 casing, tally @ 423', set @ 435' KB used 175 sacks of A-common blend, 3% cc, .25 CR, used 175 sacks of 2% cc .25 CR, cement circulated, by Basic, Ticket # 17394. Plug down @ 8:00 am on 12.11.18.

Production Casing	
12.20.18	Ran 108 joints of new 15.5# 5 1/2 casing, tally @ 4350' set @ 4348' , used 175 sacks of AA2 5% gypsum, 10% salt, 5% gilsonite, cemented by Basic, ticket # 17556, job complete @ 12:45am 12.21.18.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
12.15.18	3200'	Geologist Adam T. Kennedy on location @ 1700 hrs 12.14.18. Drilling ahead through Topeka. Repair bloodhound unit, correlate to surrounding wells and begin running 20' samples. WOB: 30-35k RPM: 75 PP: 1000 SPM: 60 DMC: \$862.40 CMC: \$6,686.20
12.16.18	3725'	Drilling and connections Topeka, Douglas, Upper Lansing. CFS @ 3712'. Made 525' in last 24 hours of operations. WOB: 30-35k RPM: 75 PP: 1000 SPM: 60

WOB: 30-35k RPM: 75 PP: 1000 SPM: 60
 DMC: \$125.04 CMC: \$6,811.24

12.17.18 3880' Drilling and connections Lansing A through H. CFS @ 3803' (H). Shows warrant test. Conduct short trip (10 stands), CTCH, drop strait hole and TOH for DST #1. Conduct test, TIH to resume drilling. Drilling and connections LKC I, J, K. CFS @ 3850'. Currently drilling ahead through K. Made 155' in last 24 hours of operations.
 WOB: 30-35k RPM: 75 PP: 1000 SPM: 60
 DMC: \$1,100.75 CMC: \$7,911.99

12.18.18 4134' Drilling and connections LKC H through Viola. CFS @ 4134' (Viola). Shows warrant test. Conduct test, TOH to resume drilling.
 Made 245' in last 24 hours of operations.
 WOB: 30-35k RPM: 75 PP: 1000 SPM: 60
 DMC: \$ 383.87 CMC: \$ 8,295.86

12.19.18 4267' Drilling and connections Viola, Simpson, Arbuckle. CFS @ 4250', 4267' (Arbuckle). Shows warrant test, TOH for DST #3. Conduct DST #3. Currently on bottom with DST #3.
 Made 133' in last 24 hours of operations.
 WOB: 35k RPM: 75 PP: 1000 SPM: 60
 DMC: \$1,120.06 CMC: \$9,415.92

12.20.18 RTD - 4350'
 LTD - 4346' Conduct DST #3. Reverse out test, wait on truck 1 hr, trip back in hole, rathole ahead to RTD of 4350'. RTD reached 23:50 hrs 12.19.18. CTCH 1.5 hrs, drop survey, TOH for logs. Logging operations completed 07:30 hrs 12.20.18. Geologist off location @ 0800 hrs 12.20.18.
 Made 83' in last 24 hours of operations.
 WOB: 35k RPM: 75 PP: 1000 SPM: 60
 DMC: \$438.73 CMC: \$9,854.55

WELL COMPARISON SHEET

	Drilling Well				Comparison Well				Comparison Well				Comparison Well			
	Edison Operating - Dudrey #1-23 Sec. 23 - T25S - R13W 911' FNL & 1590' FWL 1923 GL 1933 KB				Brougher - Dudrey 'A' #1 Sec. 23 - T25S - R13W NE NE NW Dry - Arb 1929 KB				Brougher - Reissig 'A' #1 Sec. 23 - T25S - R13W NW NW NE Oil - LKC/SPSD 1924 KB				Cliton - Reissig #2-D Sec. 23 - T25S - R13W E/2 NW NE Oil - Arb 1926 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3134	-1201	3128	-1195	3139	-1210	9	15	3137	-1213	12	18	3134	-1208	7	13
Heebner	3481	-1548	3473	-1540	3475	-1546	-2	6	3475	-1551	3	11	3470	-1544	-4	4
Toronto	3502	-1569	3494	-1561					3494	-1570	1	9	3490	-1564	-5	3
Douglas	3523	-1590	3513	-1580					3516	-1592	2	12	3514	-1588	-2	8
Brown Lime	3630	-1697	3624	-1691					3631	-1707	10	16	3626	-1700	3	9
Lansing-Kansas City	3663	-1730	3654	-1721	3659	-1730	0	9	3658	-1734	4	13	3651	-1725	-5	4
LKC 'B'	3680	-1747	3671	-1738					3674	-1750	3	12	3669	-1743	-4	5
LKC 'D'	3706	-1773	3699	-1766					3702	-1778	5	12	3698	-1772	-1	6

Muncie Creek	3793	-1860	3786	-1853					3790	-1866	6	13	3786	-1860	0	7
LKC 'H'	3797	-1864	3789	-1856					3795	-1871	7	15	3790	-1864	0	8
LKC 'I'	3814	-1881	3807	-1874					3804	-1880	-1	6	3808	-1882	1	8
LKC 'J'	3830	-1897	3821	-1888					3826	-1902	5	14	3820	-1894	-3	6
Stark	3862	-1929	3857	-1924					3865	-1941	12	17	3860	-1934	5	10
LKC 'K'	3870	-1937	3866	-1933					3870	-1946	9	13	3862	-1936	-1	3
Hushpuckney	3901	-1968	3896	-1963					3900	-1976	8	13	3898	-1972	4	9
Base Kansas City	3942	-2009	3939	-2006	3944	-2015	6	9	3946	-2022	13	16	3935	-2009	0	3
Marmaton	3967	-2034	3951	-2018	3965	-2036	2	18	3967	-2043	9	25	3956	-2030	-4	12
Kinderhook	4055	-2122	4042	-2109	4078	-2149	27	40	4085	-2161	39	52	4050	-2124	2	15
Viola	4110	-2177	4077	-2144	4119	-2190	13	46	4122	-2198	21	54	4087	-2161	-16	17
Simpson	4180	-2247	4185	-2252	4134	-2205	-42	-47	4176	-2252	5	0	4163	-2237	-10	-15
Simpson Sand	N/P															
Arbuckle	4238	-2305	4235	-2302	4243	-2314	9	12	4235	-2311	6	9	4229	-2303	-2	1
Total Depth	4350	-2417	4346	-2413	4290	-2361	-56	-52	4270	-2346	-71	-67	4240	-2314	-103	-99

ROCK TYPES

	Cht		LMST1		SILTSTONE		SHALE GRA
	Cht vari		LMST2		SHALE CAR		SHALE RED
	DOL4		Ss		SHALE GRN		

ACCESSORIES

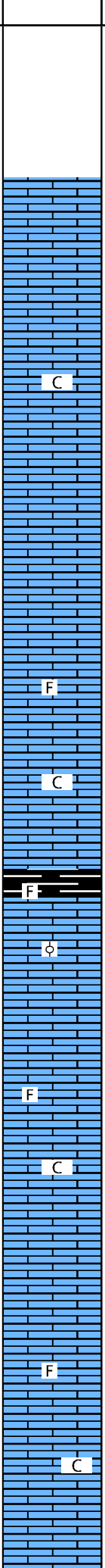
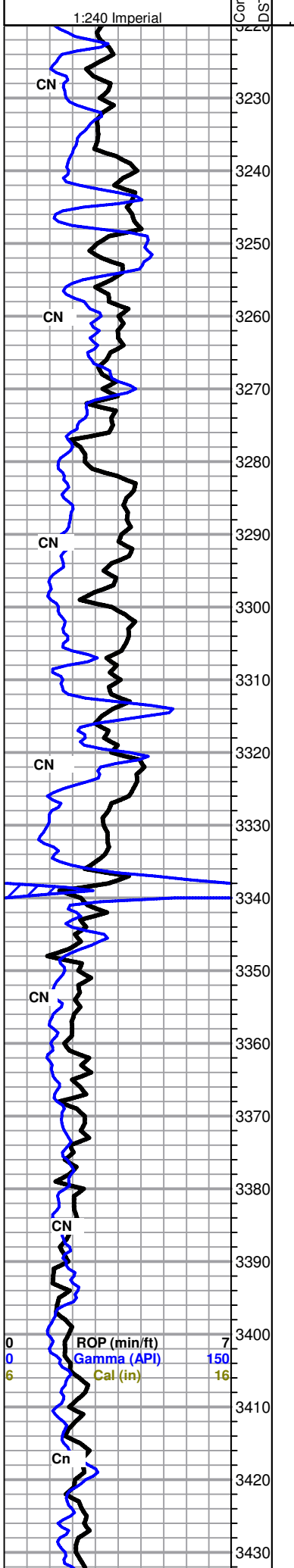
MINERAL	FOSSIL	TEXTURE
P Pyrite	∩ Bioclastic or Fragmental	C Chalky
△ Chert White	F Fossils < 20%	
	⊖ Oolite	
	⊕ Oomoldic	

OTHER SYMBOLS

MISC	DST
Daily Report	DST1
Digital Photo	DST2
Document	DST3
Folder	Core
Link	tail pipe
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1				TG, C1 - C5		
ROP (min/ft)	Interval interval	Depth Intervals DST	Lithology	Oil Show		Total Gas (units)
Gamma (API)						C1 (units)
Cal (in)						C2 (units)
						C3 (units)
						C4 (units)
Geological Descriptions						



Limestone: cream tan, micro to fine xln, fossiliferous, dense chalky matrix, poor visible porosity, no shows noted, with abundant gray blocky shales.

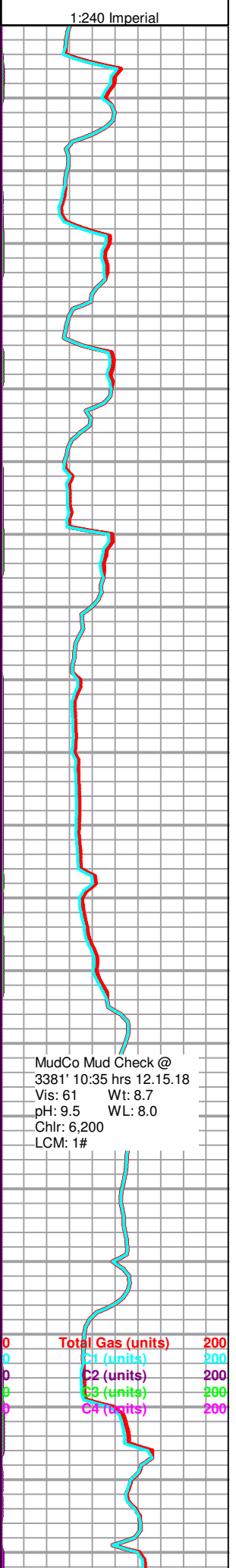
Limestone: cream tan light brown, micro to finexln, fossiliferous oolitic, dense xln matrix, scattered poor pinpoint porosity, no shows noted.

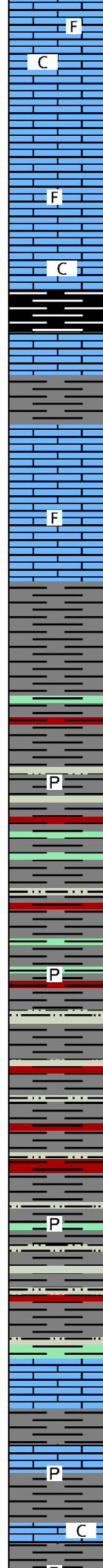
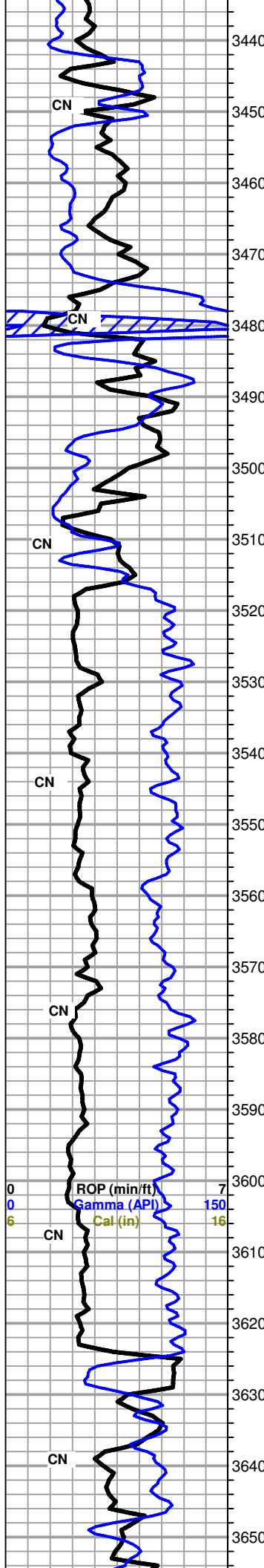
Limestone: cream tan, microxln, trace fossils, most fossiliferous hash, dense chalky matrix, poor visible porosity, no shows noted.

Limestone: cream tan, microxln, trace fossils oolitic, dense xln matrix, no shows noted.

Limestone: cream tan brown, micro to finexln, fossiliferous, chalky, dense xln matrix, poor visible porosity, trace dead black edge staining, no shows noted.

Limestone: cream tan, microxln, trace fossils, dense hard matrix, chalky, poor visible porosity, abundant green and gray shales, no shows noted.





Limestone: cream tan, micro to finexln, fossiliferous, dense chalky matrix, poor visible porosity, trace dead black stain, no shows noted.

Limestone: white cream, micro to finexln, fossiliferous, dense chalky matrix, poor visible porosity, scattered gray and black shales, no shows noted.

HEEBNER 3473' (-1540)

Shale, black brown, blocky fissile, micaceous, carbonaceous.

TORONTO 3494' (-1561)

Limestone: white gray, micro to finexln, trace fossils, mottled xln texture, poor visible porosity, no shows noted.

Limestone: white cream, micro to finexln, trace fossils, scattered poor to good interxln porosity, scattered secondary rexln, no shows noted.

DOUGLAS SHALE 3514' (-1580)

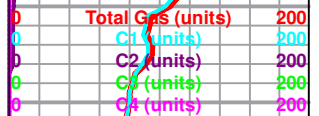
Shale: gray green brick red, blocky fissile, abundant gray siltstones, scattered white cream limestone: microxln, dense chalky matrix.

Shale: gray green brick red, blocky fissile, pyritic, very chalky, with abundant gray siltstones: dense, chalky.

BROWN LIME 3624' (-1691)

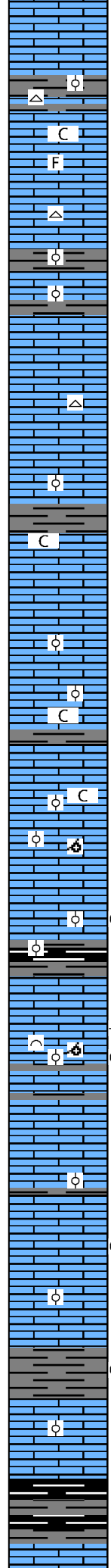
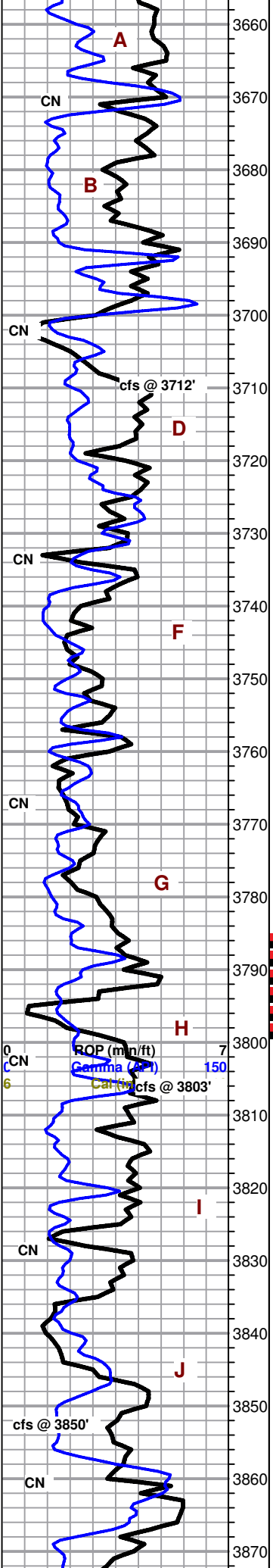
Shale: gray light green, dense blocky, pyritic, very chalky.

shale kick



LANSING KANSAS CITY 3654' (-1791)

LANSING KANSAS CITY 3654 (-1721)



Limestone: white cream, microxn, fossiliferous, chalky matrix, abundant chalk and chert, samples wash gray, poor visible porosity, no shows noted.

Limestone: white cream, micro to finexln, fossiliferous, scattered good interxn sub-fossiliferous porosity, no shows noted,

cfs Limestone: cream gray, micro to finexln, fossiliferous, dense chalky matrix, scattered poor to good interxn porosity, no shows noted.

Limestone: cream tan brown, microxn, fossiliferous oolitic, dense xln matrix, chalky, poor visible porosity, no shows or odor noted.

Limestone: cream brown, microxn, fossiliferous oolitic, dense xln cherty matrix, scattered poor interxn porosity, no shows noted, abundant chert: sharp fresh fossiliferous.

Limestone: cream tan gray, micro to finexln, fossiliferous broken hash, dense chalky matrix, scattered poor edge fracture porosity, no shows or odor noted.

Limestone: cream tan gray, micro to finexln, fossiliferous oolitic, dense xln matrix, scattered good interxn oomoldic porosity, chalky, no shows or odor noted.

Limestone: cream tan brown, micro to finexln, fossiliferous oolitic, dense xln matrix, scattered poor pinpoint interxn porosity, scattered dark brown show when broken, no odor or fl.

MUNCIE CREEK 3786' (-1853)

Limestone: white cream tan, micro to finexln, fossiliferous oolitic bioclastic, dense oomoldic matrix, scattered good to excellent oomoldic porosity, scattered secondary xln, poor to good show free oil in porosity, slight show gas, increase under lamp, faint odor, pale yellow fl.

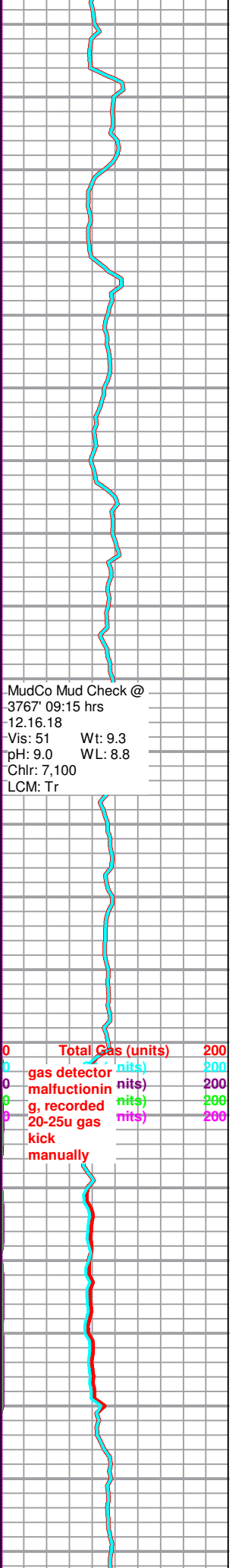
Limestone: cream tan, micro to fine xln, fossiliferous oolitic, dense xln matrix, poor visible porosity, trace chert, no shows noted.

Limestone: white cream, micro to finexln, fossiliferous, dense xln matrix, scattered poor interxn porosity, trace dark brown stain, trace free oil and faint odor, pale yellow fl.

Limestone: white cream, micro to finexln, fossiliferous oolitic, scattered poor to good interxn porosity, dense subfriable xln matrix, trace chalk, scattered dark brown stain in porosity, no shows free oil or gas, faint odor, faint yellow fl.

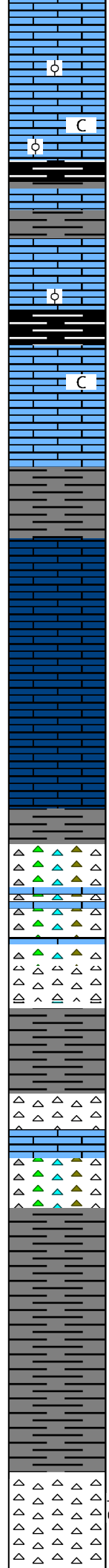
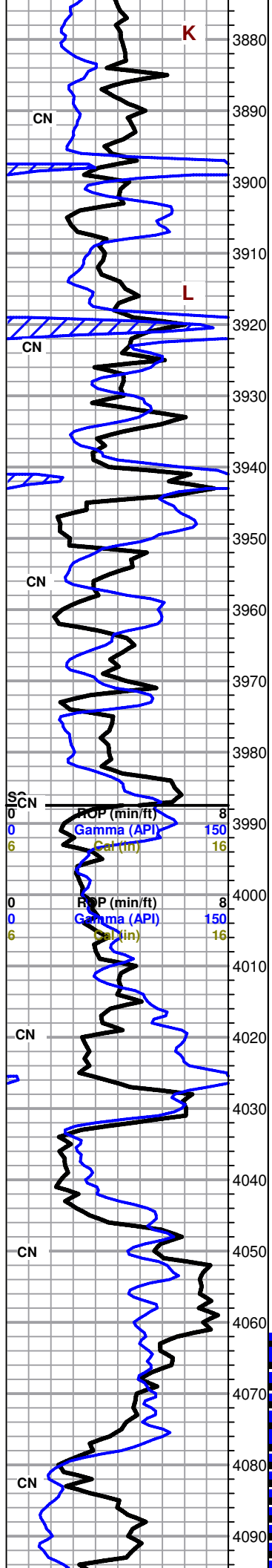
STARK SHALE 3857' (-1924)

Shale: gray dark gray black, dense blocky fissile carbonaceous.



MudCo Mud Check @ 3767' 09:15 hrs
 -12.16.18
 Vis: 51 Wt: 9.3
 pH: 9.0 WL: 8.8
 Chr: 7,100
 LCM: Tr

Total Gas (units) 200
 gas detector (nits) 200
 malfunction (nits) 200
 g, recorded (nits) 200
 20-25u gas (nits) 200
 kick manually



Limestone: cream tan, micro to finexln, trace fossils, dense xln matrix, scattered poor to fair interxln porosity, no shows or odor noted.

Limestone: cream tan, micro to finexln, fossiliferous trace oolites, dense xln matrix, scattered poor interxln interfoss porosity, no shows or odor noted.

HUSHPUCKNEY 3896' (-1963)

Limestone: cream tan, microxln, trace fossils, dense xln subchalky matrix, scattered poor interxln porosity, no shows or odor noted.

Limestone as above with influx shales: gray green dark purple, waxy, soft, pyritic.

Limestone: cream tan, micro to finexln, fossiliferous oolitic, scattered poor to good oomoldic porosity, chalky, dense xln matrix, no shows or odor noted.

Shale: gray green brick red, waxy soft, pyritic.

MARMATON 3951 (-2018)

Limestone: cream tan, micro to finexln, trace fossils, dense to subfriable xln matrix, scattered poor to good interxln porosity, no shows or odor noted.

Limestone: cream tan, micro to finexln, fossiliferous, dense xln matrix, scattered poor to fair interxln vuggy porosity, few pieces light brown oil when broke, faint odor, faint yellow fl.

Chert: varicolored, opaque, dense sharp fresh, trace fossils too small to identify, scattered poor edge porosity, no shows or fl noted

Chert: bone white cream orange, sharp fresh opaque, scattered tripolitic texture, poor visible porosity, trace dark brown stain few pieces bleed gas under lamp, no odor, weak fl.

Chert: white cream light purple, mottled, opaque, dense grainy xln texture, very poor visible porosity, no shows or odor noted.

Chert: white bone white, opaque, sharp fresh, scattered tripolitic texture, dense hard matrix, very poor visible porosity, no shows or odor noted.

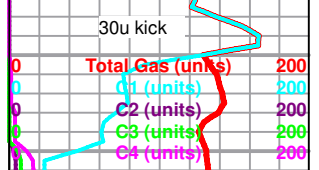
KINDERHOOK 4042' (-2109)

Cherts as above, large influx shales: gray green red black, dense waxy pyritic, abundant chalk, samples wash gray/red.

VIOLA 4077 (-2144)

Chert: white bone white, sharp fresh opaque, trace fossils, scattered tripolitic grainy texture, scattered dark brown oil stain with trace gas under lamp.

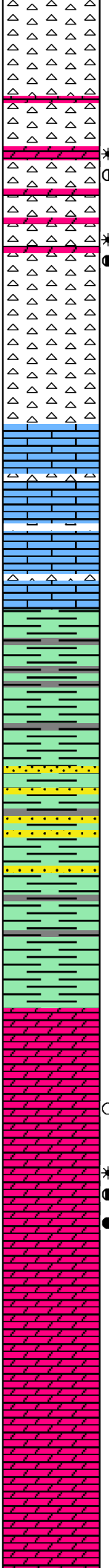
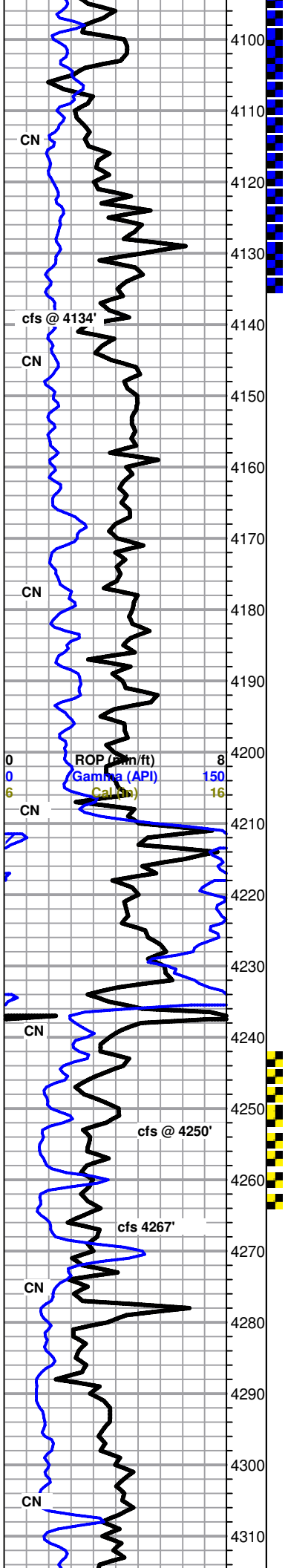
MudCo Mud Check @
3897' 08:15 hrs
12.17.18
Vis: 53 Wt: 9.2
pH: 9.5 WL: 8.4
Chlr: 7,300
LCM: Tr



30u kick

30u kick

30u kick



Chert: white bone white light yellow, sharp fresh to mottled, scattered tripolitic facies, some samples completely saturated and stained back, bleed oil and gas under lamp, faint odor, pale yellow fluorescence, with dolomite: white cream, micro to finexln, dense xln matrix, good rhombic development, scattered edge staining and assoc free oil.

cfs: Chert as above with increasing tripolitic texture and show. Several pieces completely saturated with oil and gas, increase in dolomite as above.

Chert: white bone white cream, sharp fresh opaque, fossiliferous oolitic in part, mostly very dense, scattered shales and cherts from above, decrease in show.

Limestone: cream tan light brown, micro to finexln, trace fossils, dense xln matrix, poor visible porosity, cherty, no shows noted, abundant chert from above, trace shales: gray green blocky dense.

Limestone: cream tan pale green, micro to finexln, barren, dense xln chalky matrix, poor visible porosity, no shows noted, decrease in cherts from above.

SIMPSON SHALE 4185 (-2252)

Shale: green dark green gray, very dense blocky trace waxy, with abundant chert and limestones from above, no sand or shows noted.

Shale as above with scattered sandstone: quartz, clear, sub rounded to rounded, poorly sorted, dense chalky matrix, some matrix green in color, most friable, no shows noted.

ARBUCKLE 4235' (-2302)

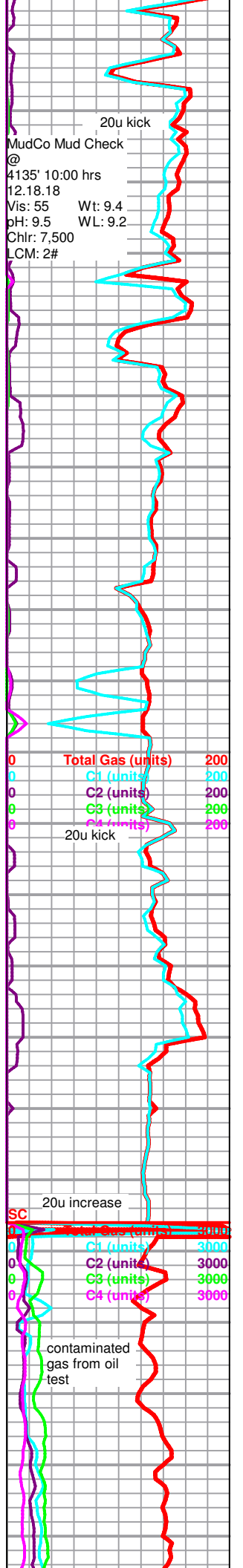
Dolomite: cream tan, microxln, dense xln matrix, very poor rhombic development, poor visible porosity, chalky, abundant shales and sandstones from above.

cfs 4267' Dolomite: cream tan, micro to coarse xln, dense xln matrix, fair to good rhombic development, scattered good to vgood interxln vuggy porosity, good show light brown oil and gas under lamp, increase when broken, light brown stain in porosity, very strong odor, bright yellow fl.

Dolomite: white cream tan, micro to finexln, dense xln matrix, good rhombic development, scattered good interxln vuggy porosity, decrease in overall show, strong odor, scattered free oil and gas under lamp, bright green fl.

4300' Dolomite: white cream, micro to finexln, dense xln chalky matrix, good to fair rhombic development, scattered good interxln porosity, no shows noted, very strong odor, bright green fl.

4320' Dolomite: white cream, micro to finexln, good rhombic development,



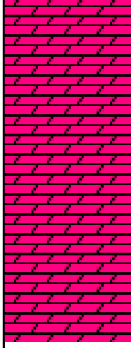
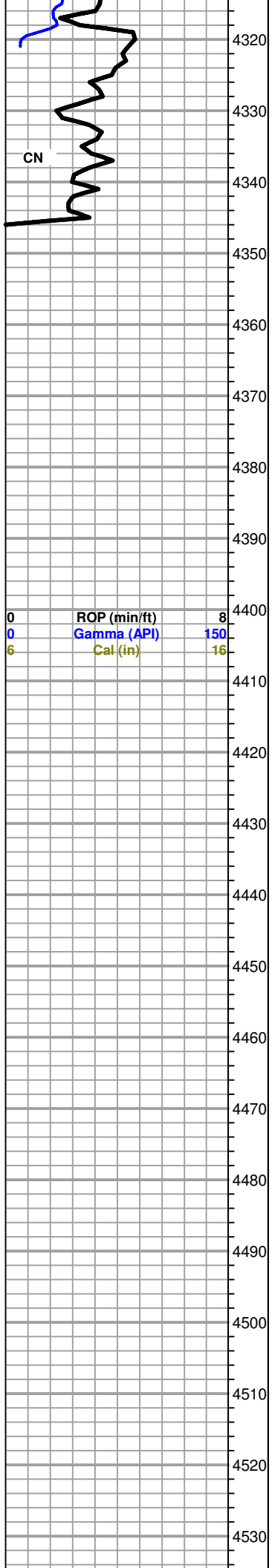
MudCo Mud Check @ 4135' 10:00 hrs 12.18.18
 Vis: 55 Wt: 9.4
 pH: 9.5 WL: 9.2
 Chr: 7,500
 LCM: 2#

0	Total Gas (units)	200
0	C1 (units)	200
0	C2 (units)	200
0	C3 (units)	200
0	C4 (units)	200




0	Total Gas (units)	3000
0	C1 (units)	3000
0	C2 (units)	3000
0	C3 (units)	3000
0	C4 (units)	3000

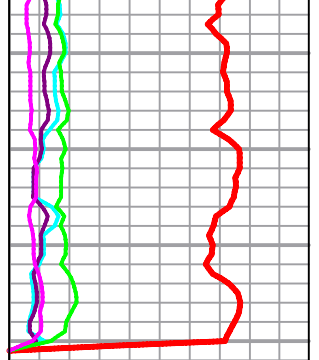
contaminated gas from oil test

scattered poor to fair interxn porosity, no shows noted, strong odor, bright greenish yellow fl.



RTD 4350' (-2417)
LTD 4345' (-2412)

-  Dudrey DST #1.jpg
-  Dudrey DST #2.jpg
-  Dudrey DST #3.jpg



0	Total Gas (units)	3000
0	C1 (units)	3000
0	C2 (units)	3000
0	C3 (units)	3000
0	C4 (units)	3000

4540

4550

4560

4570

4580

4590

Dudrey DST #1.jpg

 <p>Eagle Testers Great Bend, Kansas</p>	<h2 style="margin: 0;">DRILL STEM TEST REPORT</h2> <p>Edison Operating Company LLC 23-25s-13w Stafford</p> <p>8100 E22nd Str.N. Bldg 1900 Dudrey #1-23 Wichita, Kansas 67226</p> <p>ATTN: Adam Kennedy Job Ticket: 01058 DST#: 1</p> <p style="text-align: right;">Test Start: 2018.12.16 @ 17:00:00</p>
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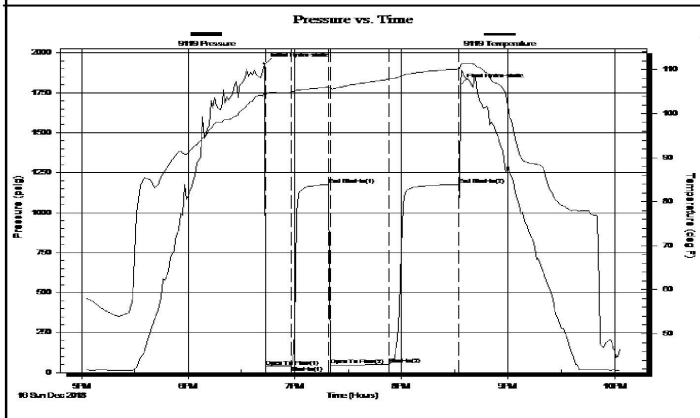
GENERAL INFORMATION:

Formation: Kansas City "H"	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budigh
Time Tool Opened: 18:44:00	Unit No: 1
Time Test Ended: 22:03:00	Reference Elevations: 1933.00 ft (KB)
Interval: 3790.00 ft (KB) To 3804.00 ft (KB) (TVD)	1923.00 ft (CF)
Total Depth: 3804.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 9119 Inside

Press@RunDepth: 1176.25 psig @ 3799.00 ft (KB)	Capacity: 5000.00 psig
Start Date: 2018.12.16	End Date: 2018.12.16
Start Time: 17:00:00	End Time: 22:03:29
	Time On Btm: 2018.12.16 @ 18:43:00
	Time Off Btm: 2018.12.16 @ 20:33:30

TEST COMMENT: 1st Opening 15 minutes weak b low for 1 minute and died
 1st Shut-In 30 Minutes
 2st Opening 30 nMinutes weak blow for 1 minute and died
 2nd Shut-In 45 Minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.65	104.67	Initial Hydro-static
1	39.02	104.40	Open To Flow (1)
15	42.92	104.92	Shut-In(1)
36	1175.91	106.04	End Shut-In(1)
37	44.62	105.70	Open To Flow (2)
70	53.24	107.83	Shut-In(2)
110	1176.25	110.20	End Shut-In(2)
111	1803.14	111.07	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	Drilling Mud	0.14

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

Dudrey DST #2.jpg

 <p>Eagle Testers Great Bend, Kansas</p>	DRILL STEM TEST REPORT	
	Edison Operating Company LLC 8100 E22nd Str.N. Bldg 1900 Wichita, Kansas 67226 ATTN: Adam Kennedy	23-25s-13w Stafford Dudrey #1-23 Job Ticket: 01059 DST#:2 Test Start: 2018.12.18 @ 03:30:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:10:00
 Time Test Ended: 09:36:00

Interval: 4060.00 ft (KB) To 4135.00 ft (KB) (TVD)
 Total Depth: 4135.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1

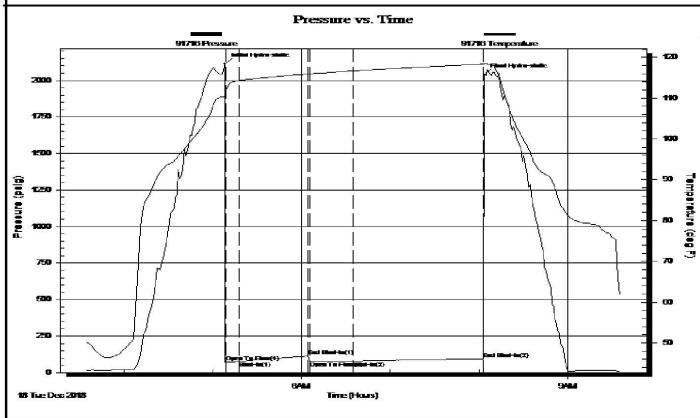
Reference Elevations: 1933.00 ft (KB)
 1923.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 91716 Outside

Press@RunDepth: 94.28 psig @ 4130.21 ft (KB)
 Start Date: 2018.12.18 End Date: 2018.12.18
 Start Time: 03:30:00 End Time: 09:35:30

Capacity: 5000.00 psig
 Last Calib.: 2018.12.18
 Time On Btm: 2018.12.18 @ 05:08:00
 Time Off Btm: 2018.12.18 @ 08:03:30

TEST COMMENT: 1st Opening 15 minutes w weak blow for 7 minutes and died
 1 st shut-in 45 minutes
 2nd opening 30 minutes
 2nd Shut-In 90 Minutes



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2114.26	110.58	Initial Hydro-static
1	70.36	111.34	Open To Flow (1)
10	75.63	114.33	Shut-In(1)
57	112.69	115.93	End Shut-In(1)
58	77.86	115.95	Open To Flow (2)
87	79.17	116.67	Shut-In(2)
175	94.28	118.31	End Shut-In(2)
176	2039.23	118.36	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	dRILLING mUD	0.14

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

 <p>Eagle Testers Great Bend, Kansas</p>	DRILL STEM TEST REPORT							
	<table style="width:100%;"> <tr> <td style="width:50%;">Edison Operating Company LLC</td> <td style="width:50%; text-align: right;">23-25s-13w Stafford</td> </tr> <tr> <td>8100 E22nd Str.N. Bldg 1900 Wichita, Kansas 67226</td> <td style="text-align: right;">Dudrey #1-23</td> </tr> <tr> <td>ATTN: Adam Kennedy</td> <td style="text-align: right;">Job Ticket: 01060 DST#: 3</td> </tr> <tr> <td></td> <td style="text-align: right;">Test Start: 2018.12.19 @ 04:55:00</td> </tr> </table>	Edison Operating Company LLC	23-25s-13w Stafford	8100 E22nd Str.N. Bldg 1900 Wichita, Kansas 67226	Dudrey #1-23	ATTN: Adam Kennedy	Job Ticket: 01060 DST#: 3	
Edison Operating Company LLC	23-25s-13w Stafford							
8100 E22nd Str.N. Bldg 1900 Wichita, Kansas 67226	Dudrey #1-23							
ATTN: Adam Kennedy	Job Ticket: 01060 DST#: 3							
	Test Start: 2018.12.19 @ 04:55:00							

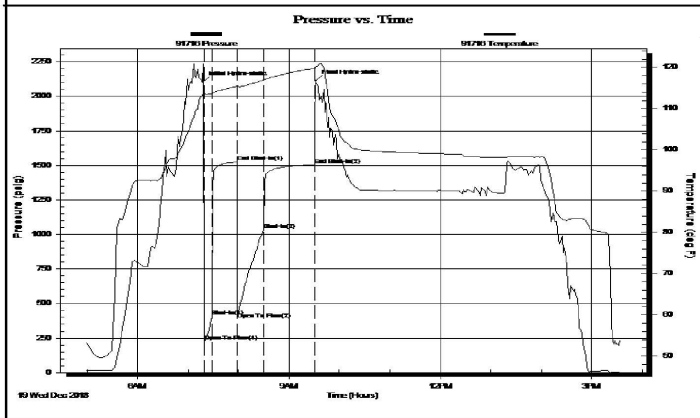
GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Gene Budig
Time Tool Opened: 07:00:00	Unit No: 1
Time Test Ended: 15:36:00	Reference Elevations: 1933.00 ft (KB)
Interval: 4247.00 ft (KB) To 4267.00 ft (KB) (TVD)	1923.00 ft (CF)
Total Depth: 4267.00 ft (KB) (TVD)	KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches Hole Condition: Fair	

Serial #: 91716 Outside

Press@RunDepth: 1504.33 psig @ 4262.00 ft (KB)	Capacity: 5000.00 psig
Start Date: 2018.12.19	End Date: 2018.12.19
Start Time: 04:55:00	End Time: 15:34:00
	Time On Btm: 2018.12.19 @ 07:17:30
	Time Off Btm: 2018.12.19 @ 09:31:30

TEST COMMENT: 1st Opening 10 Minutes Strong blow built to the bottom of the bucket in 1 minute
 1st Shut-In 30 Minutes good bnlow back
 2nd Opening 30 Minutes strong blow gas to surface in 25 minutes
 2nd Shut-In 60 Minutes good blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.35	113.35	Initial Hydro-static
2	228.34	113.55	Open To Flow (1)
11	405.88	113.65	Shut-In(1)
41	1525.71	115.43	End Shut-In(1)
42	433.53	115.43	Open To Flow (2)
73	1032.30	116.91	Shut-In(2)
133	1504.33	119.78	End Shut-In(2)
134	2109.80	119.94	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	Gas to surface on the 2nd opening	0.00
480.00	clean gassy Oil 20% Gas 80% Oil	6.73
300.00	OIL & gAS CUT w Ater	4.21
0.00	5 % Gas 30% Oil 5% Mud 60% Water	0.00
300.00	Oil Cut Water	4.21
0.00	5% Gas 25% Oil % 5% Mud 65% Wate	0.00

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



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007020	1718	12/12/2018
INVOICE NUMBER			
92866781			

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

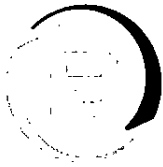
J LEASE NAME Dudrey 1-23
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41149592	20920		Net - 30 days	01/11/2019

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 12/11/2018 to 12/11/2018				
0041149592				
171817584A Cement-New Well Casing/Pi 12/11/2018				
8 5/8" SURFACE CASING				
A-Con' Blend	175.00	EA	10.98	1,921.50
COMMON CEMENT	175.00	EA	9.76	1,708.00
825 LBS Calcium Chloride	1.00	LB	528.41	528.41
88 LBS Celloflake	1.00	LB	198.62	198.62
Wooden Cement Plug, 8 5/8"	1.00	EA	97.60	97.60
20 PICKUP MILES	1.00	MI	54.90	54.90
40 Heavy Equipment Mileage	1.00	MI	183.00	183.00
Proppant & Bulk Del. Chgs., per ton mil	1.00	EA	503.25	503.25
Depth Charge; 0-500'	1.00	EA	610.00	610.00
Blending & Mixing Service Charge	1.00	SK	298.90	298.90
Plug Container Utilization Charge	1.00	EA	152.50	152.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	106.75	106.75

*Cement for 8 5/8" surf casing
 9209 TAN.
 12/29 mg*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,363.43
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,363.43
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

7TMD
5/8

FIELD SERVICE TICKET
1718 17584 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-11-18 DISTRICT Pratt		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		LEASE Dudley WELL NO. 1-2							
ADDRESS		COUNTY SENECA STATE KS							
CITY STATE		SERVICE CREW MATT MAQUHAR B-C-11							
AUTHORIZED BY		JOB TYPE: 2-42 8 5/8 SURV.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
20920	.5						12-10	PM	5:00
						ARRIVED AT JOB		AM	6:00
19860	.5					START OPERATION	12-11	AM	7:30
						FINISH OPERATION		AM	8:00
						RELEASED		AM	9:00
						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: X
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A-con Blend	SM	175		3,150 00
CP100C	COMMON CRT	SM	175		2,800 00
CC109	Calcium Chloride	LB	825		866 25
CC102	collor. etc	LB	88		325 60
CR153	WOOD PLUG 8 5/8	EA	1		160 00
E100	P.u. miles	Mi	30		90 00
E101	Heavy eq miles	Mi	40		300 00
E113	PROP + bulk dol	TM	330		825 00
CR200	dept. charge 0-500'	46-	1		1,000 00
CR240	blend + mix	SM	350		490 00
CR500	Plug cost.	JOB	1		250 00
500	Supervisor	EA	1		175 00
SUB TOTAL					10,431 85

CHEMICAL / ACID DATA:			

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

TOTAL
6,363 43

SERVICE REPRESENTATIVE Mike Mattill	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
-------------------------------------	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customers invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

Orders for products of special design, size or materials are not subject to cancellation after processing of such order has begun by BES. Equipment altered, made to Customer's specifications, or requiring special handling, is subject to special prices.

If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting thereof, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any oil well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

Should any of our equipment, tools or instruments become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost equipment, tools or instruments and if such equipment, tools or instruments are not recovered, Customer shall pay BES its replacement cost unless such loss is due to the sole negligence of BES. If BES's equipment, tools or instruments are damaged in the well, Customer shall pay BES the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of BES.

Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State, and local laws and regulations.

General Provisions:

Wherever the initials BES appear in this document, they are intended solely to be an abbreviation of Basic Energy Services LP, and are used in substitution of such full name as if the full name were set out in each instance.

Any modifications of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this document, are hereby objected to BY REQUESTING ANY OF THE GOODS AND SERVICES SET FORTH HEREIN BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED IN THIS DOCUMENT.

BES reserves the right to change or modify the design of any BES product without obligation to furnish or install such changes or modification on products previously or subsequently sold.

Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.



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

FIELD SERVICE TICKET
1718 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).

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT		

SUB TOTAL _____

CHEMICAL / ACID DATA:			

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

TOTAL
5 11

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

FIELD SERVICE ORDER NO. _____

Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customers invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

Orders for products of special design, size or materials are not subject to cancellation after processing of such order has begun by BES. Equipment altered, made to Customer's specifications, or requiring special handling, is subject to special prices.

If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting thereof, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any oil well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

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Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

General Provisions:

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Any modifications of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this document, are hereby objected to BY REQUESTING ANY OF THE GOODS AND SERVICES SET FORTH HEREIN BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED IN THIS DOCUMENT.

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Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

Customer EDMUND OPERATING		Lease No.		Date 12-11-18	
Lease Dudman		Well # 1-23			
Field Order # 17584	Station PRATT	Casing 8 5/8	Depth 416.20	County STAFFORD	State KS
Type Job 2-42 8 5/8 SURFACE			Formation	Legal Description 23-255-13W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid	175 A.CU	RATE 370	PRESS	ISIP
Depth 436.20	Depth	From	To	Pre Pad	175 COM	Max 270	CC	5 Min.
Volume 27.7	Volume	From	To	Pad		Min		10 Min.
Max Press 500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 416.20	Packer Depth	From	To	Flush	26.4	Gas Volume		Total Load

Customer Representative RICK PAPP	Station Manager WESTERMAN	Treater MATTAL		
Service Units 6375	84981	20920	14889	19866
Driver Names MATTAL	MARQUEZ	BUCCINI		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:20					ON LOCATION / SAFETY MEETING
6:00					Run 8 5/8 CSNG
7:15					CSNG ON BOTTOM
7:25					HOOK TO CSNG / BREAK CIRC W. RIG
7:35	100		3	5	PUMP 3 bbl WATER
7:37	300		69.5	6	MIX 175 SHS A.CU
7:46	300		37	5	MIX 175 SHS COMMON
7:56			-		DROP PLUG
7:58			-		START DISPLACEMENT
8:05			26.4		PLUG DOWN / SHUT IN WELL
					CMT TO SURFACE
JOB COMPLETE THANK YOU! MIKE MATTAL EDMUND + WAD					



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1007020	1718	12/31/2018
INVOICE NUMBER			
92878726			

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

J LEASE NAME Dudrey #1-23
 O LOCATION
 B COUNTY Stafford
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
41152043			Net - 30 days	01/30/2019	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/21/2018 to 12/21/2018</i>					
0041152043					
171817556A Cement-New Well Casing/Pi 12/21/2018					
5 1/2" Production Casing					
AA2 Cement		175.00	EA	10.37	1,814.75
60/40 POZ		50.00	EA	7.32	366.00
C-41P		83.00	EA	2.44	202.52
881 Lbs - Salt		1.00	EA	268.71	268.71
C-17		83.00	LB	12.20	1,012.60
876 Lbs. - Gilsonite		1.00	LB	358.02	358.02
86 Lbs. - Cement Gel		1.00	LB	13.12	13.12
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	219.60	219.60
"Latch Down Plug & Baffle, 5 1/2" (Blue)"		1.00	EA	244.00	244.00
5 1/2" Basket (Blue)"		1.00	EA	176.90	176.90
Turbolizer, 5 1/2" (Blue)"		10.00	EA	67.10	671.00
500 Gals. - Mud Flush		1.00	GAL	457.50	457.50
Claymax KCL Substitute		5.00	EA	21.35	106.75
20 Miles/ Unit Mileage Chg		1.00	MI	54.90	54.90
40 Miles/Heavy Equipment Mileage		1.00	MI	183.00	183.00
208 Tn/Mil/Proppant & Bulk Del. Chgs.		1.00	EA	317.19	317.19
Depth Charge; 4001'-5000'		1.00	EA	1,537.20	1,537.20
225 Sks. - Blending & Mixing Service Chg		1.00	BAG	192.15	192.15
Plug Container Utilization Charge		1.00	EA	152.50	152.50
"Service Supervisor, first 8 hrs on loc.		1.00	EA	106.75	106.75

1/5 mg
Cement for 5 1/2" ASN
9245

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,455.16
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	0.00
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,455.16
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

JTM 11/40

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

FIELD SERVICE TICKET
1718 17556 A

23-255-13w

DATE _____ TICKET NO. _____

DATE OF JOB <i>12/21/2018</i>	DISTRICT <i>Pratt, ks</i>	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 <i>Edison Operating</i>	LEASE <i>Dudrey</i>	WELL NO. <i>1-2</i>					
ADDRESS	COUNTY <i>Schaffers</i>	STATE <i>KS</i>					
CITY	STATE	SERVICE CREW <i>Darin, Brett, David, Wade</i>					
AUTHORIZED BY	JOB TYPE: <i>2.42/3 1/2 Long String</i>						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE <i>12/20</i> AM <i>6:00</i> TIME
<i>19843</i>	<i>1</i>					ARRIVED AT JOB	<i>12/20</i> AM <i>7:15</i>
<i>19918</i>	<i>1/2</i>					START OPERATION	<i>12/21</i> AM <i>12:00</i>
						FINISH OPERATION	<i>12/21</i> AM <i>1:00</i>
						RELEASED	<i>12/21</i> AM <i>1:30</i>
						MILES FROM STATION TO WELL	<i>18</i>

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: *Randy Papp*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP105	DD2 Cement	SK	175		2,975 00	
CP103	60/40 Poz	SK	50		600 00	
CC105	C-41 P	Lb	83		332 00	
CC111	S912	Lb	981		440 80	
CC148	C-17	Lb	83		1,660 00	
CC201	Gilson, etc	Lb	876		586 92	
CC200	Cement + Gal	Lb	86		21 50	
CF1251	Duro Fill Flost Shee 5 1/2" (Blue)	ES	1		360 00	
CF607	Green Down Plug & Baffle, 5 1/2" (Blue)	ES	1		400 00	
CF1901	5 1/2" Baffle (Blue)	ES	1		290 00	
CF1651	Turbolizer 5 1/2" (Blue)	ES	10		1,100 00	
CC151	mud Flush	Gal	500		750 00	
C104	CCGmer KCL Substitute	Gal	5		175 00	
E100	un. + millesse Chorse - pickups, Smell uses + Cess	mi.	20		90 00	
E101	Desvy Equipment millesse	mi.	40		300 00	
E113	Propps 2 1/2 Bulk Delivr. Chorse per ton mile	ton/mi	208		520 00	
CF205	Deprn Chorse 4,001' - 5000'	4hr	1		2,520 00	
CF240	Blending & mixing Service Chorse	SK	225		315 00	
CF504	Plug Container Utilization Chorse	Job	1		250 00	
S003	Service Supervisor, First 6 hrs on loc	ES	1		175 00	
					SUB TOTAL	13,860 92

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
D. SCURRA TOTAL		8,455 16

SERVICE REPRESENTATIVE *Valis Kulent* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Randy Papp*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

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Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

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Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

Service Conditions:

Because there are so many uncertain and unknown conditions not subject to our control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

BES shall not be liable or responsible for a Customer shall defend, indemnify, and save BES harmless, and its officers, agents or employees, from and against any and all claims or causes of action for damage to Customer's property and of the well owner, or any third person, and for bodily injury, sickness or disease, including death resulting thereof, brought by or on behalf of Customer, the well owner, or any third person, arising out of or in connection with BES's performance of services or the furnishing of materials, products and supplies, unless caused by the willful misconduct or gross negligence of BES.

Customer shall also be responsible for and shall defend, indemnify and save BES harmless, and its officers, agents or employees, from and against any and all claims, causes of action and liabilities for damages occur-

ring as a result of sub-surface trespass arising out of any oil well operations or services performed by BES, this provision applying to any claims or legal actions or royalty owners, working interest holders, overriding royalty interest holders, or any other person or concern.

Should any of our equipment, tools or instruments become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost equipment, tools or instruments and if such equipment, tools or instruments are not recovered, Customer shall pay BES its replacement cost unless such loss is due to the sole negligence of BES. If BES's equipment, tools or instruments are damaged in the well, Customer shall pay BES the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of BES.

Work done by BES shall be under the direction, supervision and control of the owner, operator, or his agent and BES will perform the work as an independent contractor and not as an employee or agent of the owner or operator.

The Customer shall at all times have complete care, custody and control of the well, the drilling and production equipment at the well and the premises about the well.

Any delays or failure by BES in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident riot, acts of God, or any contingencies beyond the reasonable control of BES. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

General Provisions:

Wherever the initials BES appear in this document, they are intended solely to be an abbreviation of Basic Energy Services LP, and are used in substitution of such full name as if the full name were set out in each instance.

Any modifications of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this document, are hereby objected to BY REQUESTING ANY OF THE GOODS AND SERVICES SET FORTH HEREIN BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED IN THIS DOCUMENT.

BES reserves the right to change or modify the design of any BES product without obligation to furnish or install such changes or modification on products previously or subsequently sold.

Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by owner, or when required by Federal, State or Local Laws, Regulations, Orders or Ordinances, or for use as evidence in court proceedings involving the subject matter of services rendered.

Failure to enforce any or all of the herein specified terms or conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

1174 40

FIELD SERVICE TICKET
1718 17556 A

23-255 13W

DATE _____ TICKET NO. _____

DATE OF JOB: 12/21/2015		DISTRICT: P1901.133		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: Foman Odersing				LEASE: Duder				WELL NO. 1			
ADDRESS:				COUNTY: S19/1010				STATE: KS			
CITY:				STATE:				SERVICE CREW: DGIN, BIRN, DEW, LSAE			
AUTHORIZED BY:				JOB TYPE: 242/5 1/2 Longline							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME		
17843	1						12/21	AM	6:00		
19918	1/2						12/21	AM	7:10		
							12/21	AM	12:00		
							12/21	AM	1:00		
							12/21	AM	1:30		
						MILES FROM STATION TO WELL: 18					

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP105	PA2 Cemen.	SK	175		2975.00	
CP103	60/40 P02	SK	50		600.00	
CC105	C 41 P	Lb	83		332.00	
CC111	551	Lb	981		440.00	
CC144	C 17	Lb	83		1,660.00	
CC201	G. 1500. 10	Lb	876		586.92	
CC200	Cemen. 601	Lb	86		21.50	
C11251	Dura F 11 Fibre Shee 5 1/2" (Blue)	FS	1		360.00	
C1607	Green Down Plug Baffle, 5" (Blue)	FS	1		400.00	
C11901	5 1/2" Baffle (Blue)	FS	1		290.00	
CE1651	Turner 3" (Blue)	FS	10		1100.00	
CC151	Mud 1 1/2"	Gal	500		750.00	
C104	CECMA/ IRL 4 Sub 1-10	Gal	5		175.00	
F100	un. missio Chese P. 2000 & 3000	m.	20		90.00	
F101	Hess. Equipment missio	m	40		300.00	
F113	P. 2000 G. Bull Del. 2000 Chese p. 1000	1/2 m	208		510.00	
C1205	Darin Chese; 4.001, 5000	4m	1		2,520.00	
C1240	Bianca & m. ac Strulge Chese	SK	225		315.00	
C1504	Plug Conts and 1/2" in Chese	Gal	1		250.00	
S003	Sally or Sub. 1000. 1000 & 1000	FS	1		175.00	
					SUB TOTAL	1780.92

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL:		8,455.16

SERVICE REPRESENTATIVE: *[Signature]*
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Agreement of Terms and Conditions

All sales of services, products, or materials by Basic Energy Services LP, (hereinafter called BES) to any Customer, unless otherwise set out in writing, are subject to the terms and conditions set out herein.

Terms:

All Service Charges and materials included in service price list are NET. Unless satisfactory credit has been established, cash payment will be required in advance. Credit Customer agrees to pay BES in its office in Cisco, Texas, for all services and materials on or before the 20th of the following month after the date of the invoice. Customer's invoice is considered in default if payment has not been received by the last day of the month following the month in which the invoice is dated and services delivered. Past due accounts will be subject to a charge for interest at the highest rate allowable by law, and if placed in the hands of an attorney for collection, Customer agrees to pay all collection costs, reasonable attorney fees and court costs.

Taxes:

All prices are exclusive of any Federal, State or Special Taxes imposed on the sale or use of the merchandise and services listed, which taxes will be added to quoted prices where applicable. If payment of any applicable royalty or license fee is required in connection with any service performed by BES for Customer, such royalty or license fee will be billed to the Customer in addition to the price of the services performed.

Special Pricing Provisions:

All materials listed in the price schedule are F.O.B. our field stock.

All prices are subject to change without notice.

The prices in this price list apply to normal operations. Special jobs under unusual circumstances on jobs requiring unusual mobilization of equipment and/or personnel, such as blowouts, experimental jobs, etc., are to be subject to special price quotations.

Orders for products of special design, size or materials are not subject to cancellation after processing of such order has begun by BES. Equipment altered, made to Customer's specifications, or requiring special handling, is subject to special prices.

If materials or services are ordered and the Customer cancels same after the materials have been prepared, a charge will be made to the Customer for expenses incurred.

Customer states that the well and all support personnel and services not being supplied by BES are ready and in condition to receive the materials and services being supplied by BES. Customer will be subject to a charge for "stand-by" time incurred by BES. For all BES services, stand-by time is all time our equipment is on location prior to commencement of operations or after completion of operations and is not operating for reasons not within the control of BES. Stand-by time is calculated from time of arrival on location or arrival time as scheduled by Customer, whichever is later, and until equipment is released by Customer.

Towing Charges:

We will make reasonable attempts to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer. In either event, Customer assumes liability for any damages arising from such pulling or arising from inadequate access to the well site.

Product Return:

Any BES Products that have been in the hands of the Customer, if not special or obsolete, will be accepted for credit, subject to our approval and inspection, if they are new unused and in salable condition. The Customer will pay the return freight, and will receive credit at the original purchase price less the original outbound freight. Any material classified or ordered as special is not subject to return or cancellation privileges.

Service Warranty:

There are obviously many conditions in and about the well which we can have no knowledge and over which we can have no control. Therefore, we do not guarantee any particular results from services to be performed hereunder. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, BES will give Customer the benefit of its best judgment based on its experience in the field. However, due to the Customer's control of the well the impracticality of providing BES with all the data concerning same, and the necessary reliance of BES upon supporting services, data and facts supplied by others, BES does not guarantee or warrant the accuracy or correctness of any facts, information or data furnished by BES or any interpretation of tests, meter readings, chart information, analysis of research or recommendations made by BES, unless caused by the willful misconduct or gross negligence of BES in the preparation of furnishing of such facts, information or data and NO WARRANTY IS GIVEN CONCERNING THE RECOMMENDATIONS MADE OR SERVICES RENDERED BY THE COMPANY AND NO WARRANTY IS MADE CONCERNING THE RESULTS SOUGHT TO BE OBTAINED THROUGH USE OF MATERIALS RECOMMENDED BY THE COMPANY. The Company's liability for injury to all persons or damage to any property or property rights, including but not limited to reservoir damage sub-surface trespass or drainage, etc., occasioned by reason of materials sold or rented or services performed hereunder shall be limited to those occurring due to the acts of willful misconduct or gross negligence of BES, and Customer agrees to be responsible for and indemnify BES against any loss or damage it may sustain by reason of materials sold or rented or services performed hereunder, unless such loss or damage is caused by the willful misconduct or gross negligence of BES.

Product Warranty:

BES warrants all materials, products and supplies manufactured or furnished by it to be free from defects in material and workmanship, under normal use and service, when installed, used and serviced in the manner provided and intended, and that it can convey good title thereto. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. BES's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale of use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on the return to BES or at BES's option, to the allowance to the customer of credit for the cost of such items. In no event shall BES be liable for special, incidental, indirect, punitive or consequential damages.

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No employee, representative or agent other than an officer of BES is empowered to alter any of the herein specified terms and conditions.

These terms and condition shall be governed by the laws of the State of Texas, and in case of any one or more of the provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

Customer Ecison Operations	Lease No.	Date 12/21/2018	
Lease Dudrey	Well # 1-23		
Field Order # 17336	Station Prst+tk	Casing 5 1/2	Depth 4350
Type Job 242/5 1/2 Longstring	Formation 7D-4350	County S+9P01c	State Ks
Legal Description 23-253-13w			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2								
Depth 4350	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 101	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	2% KCL	HHP Used		Annulus Pressure	
Plug Depth 1315	Packer Depth	From	To	Flush Water	Gas Volume		Total Load	

Customer Representative Ricic Popp	Station Manager Justin Westerman	Treater Darin Franklin
--	--	----------------------------------

Service Units	92911	78982	19843	84521	19918				
Driver Names	Darin	Brett Wzac	Brett Wzac	Darin	Darin				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:15pm					ON LOCATION / Safety meeting
					7A, 2, 3, 4, 5, 6, 7, 8, 9, 10 B-6
					1755K AAZ, 5% Gypsum, 10% SSIT
					0.5% defoamer, 0.5% Fluid Loss
					Spps, Silsonite, 15pps, 1.42 veils, 6.02 water
12/21					
	400		20	5	Pump 5 bbls water 20 bbls KCL water
	400		12	5	Pump 12 bbls Flush
	400		5	5	Pump 5 bbls water
	400		44	5	mix 1755K cement
					Shut down
					Wash pump & lines & Release Plug
	200		0	5	Start displacement
	700		80	5	Libr Pressure
	1,000		90	3	Slow Rate
	1,600		100	3	Bump Plug
					Flow - Hold
	0		7	3	Plug Rest Hole
	0		5	3	Plug Mouse Hole
1:00pm					Job complete / Darin & crew
					Thank you!!!