

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. 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	DORAN 2-16
Doc ID	1635293

All Electric Logs Run

DUCP
DUAL INDUCTION
MICRO
SONIC



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
02
2022

DST #1 Formation: L/KC "B-F" Test Interval: 3700 - 3760' Total Depth: 3760'

Time On: 20:02 03/02 Time Off: 02:48 03/03
Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

Electronic Volume Estimate:
997'

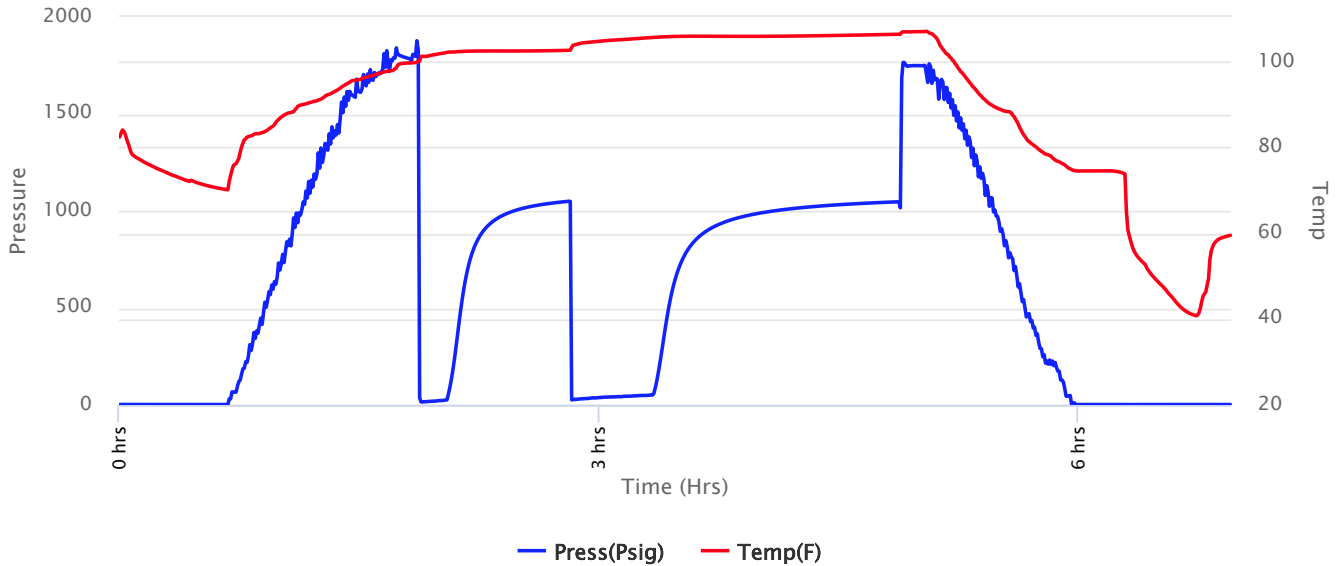
1st Open
Minutes: 10
Current Reading:
50.5" at 10 min
Max Reading: 50.5"

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

2nd Open
Minutes: 30
Current Reading:
59.9" at 30 min
Max Reading: 59.9"

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

Inside Recorder





Company: Edison Operating Company, LLC
Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1973 GL
 Field Name: Dillwin
 Pool: Infield
 Job Number: 554
 API #: 15-185-24102

Operation:
 Uploading recovery & pressures

DATE
 March
02
 2022

DST #1 **Formation: L/KC "B-F"** **Test Interval: 3700 - 3760'** **Total Depth: 3760'**
 Time On: 20:02 03/02 Time Off: 02:48 03/03
 Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

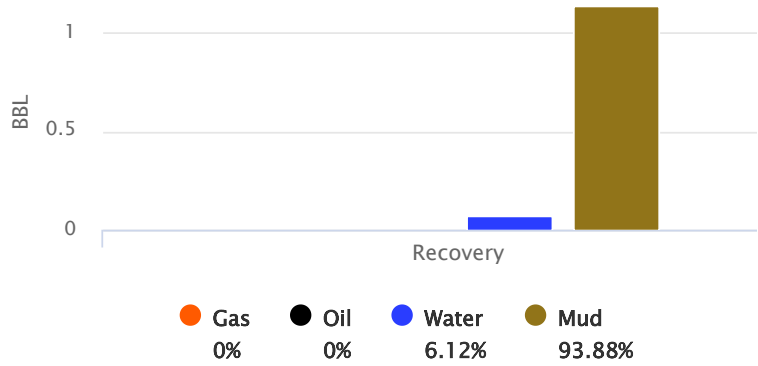
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.2846	M	0	0	0	100
65	0.92495	SLWCM	0	0	8	92

Total Recovered: 85 ft
 Total Barrels Recovered: 1.20955

Reversed Out
 NO

Initial Hydrostatic Pressure	1798	PSI
Initial Flow	15 to 26	PSI
Initial Closed in Pressure	1049	PSI
Final Flow Pressure	26 to 51	PSI
Final Closed in Pressure	1047	PSI
Final Hydrostatic Pressure	1766	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	0.2	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
02
2022

DST #1 **Formation: L/KC "B-F"** **Test Interval: 3700 - 3760'** **Total Depth: 3760'**
Time On: 20:02 03/02 Time Off: 02:48 03/03
Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

BUCKET MEASUREMENT:

1st Open: 8 1/2" blow building to BOB 30 sec.
1st Close: No BB
2nd Open: 7 1/2" blow building to BOB 1 min.
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .3% Oil 57.7% Water 42% Mud
Ph: 6.5
Measured RW: .4 @ 58 degrees °F
RW at Formation Temp: 0.228 @ 107 °F
Chlorides: 23,000 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
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State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
02
2022

DST #1 **Formation: L/KC "B-F"** **Test Interval: 3700 - 3760'** **Total Depth: 3760'**
Time On: 20:02 03/02 Time Off: 02:48 03/03
Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

Down Hole Makeup

Heads Up: 15.87 FT	Packer 1: 3695.11 FT
Drill Pipe: 3683.41 FT <i>ID-3 1/2</i>	Packer 2: 3700.11 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3684.53 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3738 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 59.89	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.89 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
02
2022

**DST #1 Formation: L/KC "B-
F" Test Interval: 3700 - Total Depth: 3760'**
3760'

Time On: 20:02 03/02 Time Off: 02:48 03/03
Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 56 **Filtrate:** 8.8 **Chlorides:** 4,000 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
02
2022

DST #1 Formation: L/KC "B-F"
Test Interval: 3700 - 3760'
Total Depth: 3760'
Time On: 20:02 03/02 Time Off: 02:48 03/03
Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
03
2022

DST #2 **Formation: L/KC "H"** **Test Interval: 3796 - 3815'** **Total Depth: 3815'**

Time On: 11:05 03/03 Time Off: 18:01 03/03
Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

Electronic Volume Estimate:
N/A

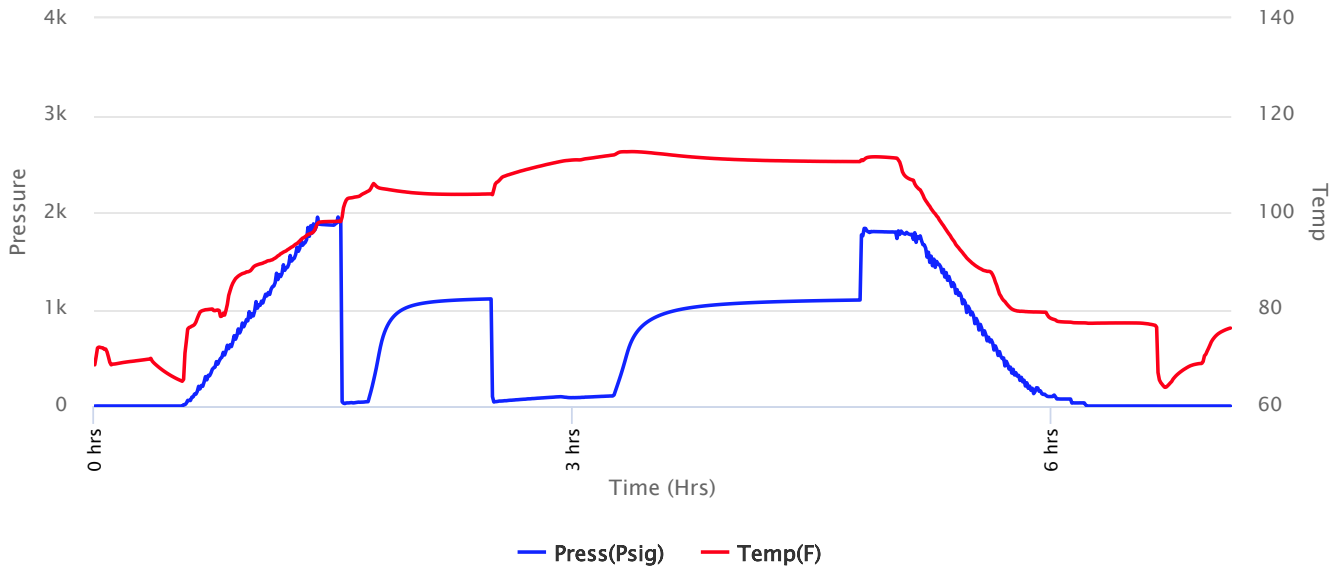
1st Open
Minutes: 10
Current Reading:
167.3" at 10 min
Max Reading: 167.3"

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

2nd Open
Minutes: 45
Current Reading:
Gauging gas" at 45 min
Max Reading: Gushing gas"

2nd Close
Minutes: 90
Current Reading:
8.2" at 90 min
Max Reading: 8.2"

Inside Recorder





Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
03
2022

DST #2 **Formation: L/KC "H"** **Test Interval: 3796 - 3815'** **Total Depth: 3815'**

Time On: 11:05 03/03 Time Off: 18:01 03/03
Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

Recovered

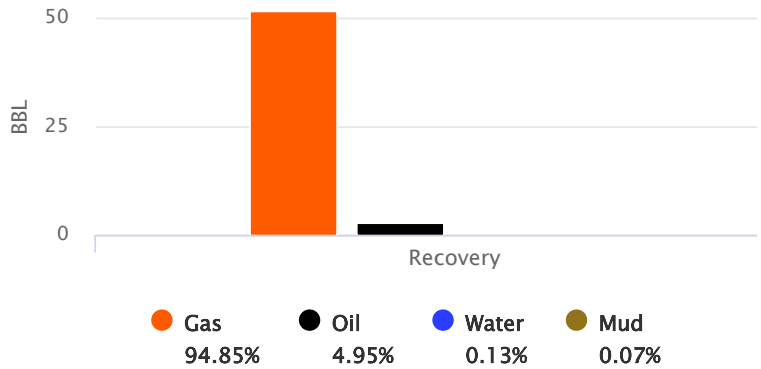
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3560	50.6588	G	100	0	0	0
255	3.62865	SLMCSLWCGCO	23	74	2	1

Total Recovered: 3815 ft
Total Barrels Recovered: 54.28745

Reversed Out
NO

Initial Hydrostatic Pressure	1867	PSI
Initial Flow	27 to 47	PSI
Initial Closed in Pressure	1106	PSI
Final Flow Pressure	43 to 106	PSI
Final Closed in Pressure	1095	PSI
Final Hydrostatic Pressure	1834	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	1.0	%

Recovery at a glance



GIP cubic foot volume: 289.10964



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
03
2022

DST #2 Formation: L/KC "H" Test Interval: 3796 - Total Depth: 3815'
3815'

Time On: 11:05 03/03 Time Off: 18:01 03/03
Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

BUCKET MEASUREMENT:

1st Open: 6" blow building to BOB 30 sec.

1st Close: No BB

2nd Open: BOB instantaneously

2nd Close: 8" BB

REMARKS:

Tool Sample: 14% Gas 71% Oil 5% Water 10% Mud

Gravity: 31.1 @ 60 °F

Ph: 6.5

Measured RW: .14 @ 75 degrees °F

RW at Formation Temp: 0.096 @ 113 °F

Chlorides: 53,000 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
03
2022

DST #2 Formation: L/KC "H" Test Interval: 3796 - 3815' Total Depth: 3815'

Time On: 11:05 03/03 Time Off: 18:01 03/03
Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

Down Hole Makeup

Heads Up: 17.29 FT	Packer 1: 3791 FT
Drill Pipe: 3780.72 FT <i>ID-3 1/2</i>	Packer 2: 3796 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3780.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3798 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 19	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 18 FT <i>4 1/2-FH</i>	



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
03
2022

DST #2 Formation: L/KC "H" Test Interval: 3796 - Total Depth: 3815'
3815'

Time On: 11:05 03/03 Time Off: 18:01 03/03
Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 57 **Filtrate:** 8.8 **Chlorides:** 10,000 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1973 GL
 Field Name: Dillwin
 Pool: Infield
 Job Number: 554
 API #: 15-185-24102

Operation:
 Uploading recovery & pressures

DATE
 March
03
 2022

DST #2 Formation: L/KC "H" Test Interval: 3796 - 3815' Total Depth: 3815'
 Time On: 11:05 03/03 Time Off: 18:01 03/03
 Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

Gas Volume Report

Remarks: Gas to surface 25 1/2 min. into final flow period

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D
30	0.25	Too weak to measure	Weak
35	0.25	Too weak to measure	Weak
40	0.25	Too weak to measure	Weak
45	0.25	Too weak to measure	Weak

MCF/D



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SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
04
2022

DST #3 Formation: Viola Test Interval: 4104 - 4150' Total Depth: 4150'

Time On: 18:47 03/04 Time Off: 01:56 03/05
Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

Electronic Volume Estimate:
3114'

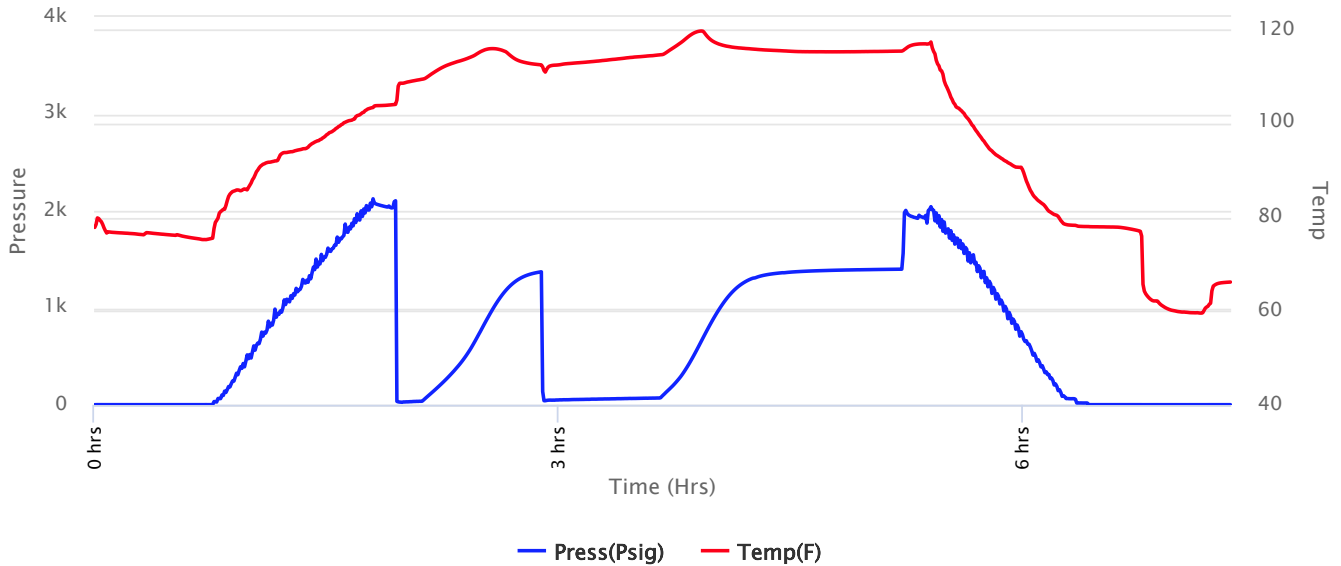
1st Open
Minutes: 10
Current Reading:
62.3" at 10 min
Max Reading: 62.3"

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

2nd Open
Minutes: 45
Current Reading:
269.8" at 45 min
Max Reading: 269.8"

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

Inside Recorder





Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
04
2022

DST #3 **Formation: Viola** **Test Interval: 4104 - 4150'** **Total Depth: 4150'**
Time On: 18:47 03/04 Time Off: 01:56 03/05
Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

Recovered

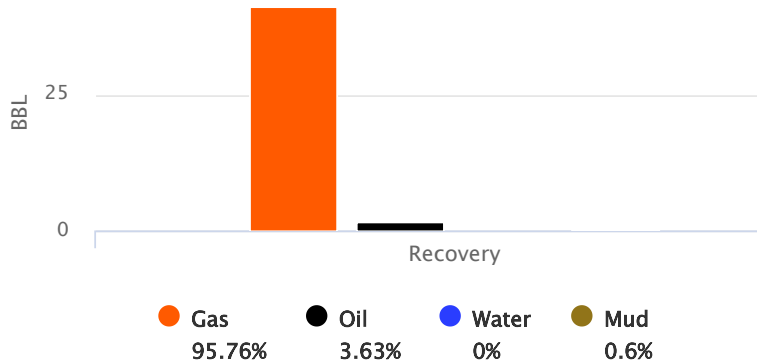
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
2890	41.1247	G	100	0	0	0
10	0.1423	SLGCSTMCO	6	24	0	70
75	1.06725	SLGCSTMCO	7	78	0	15
50	0.7115	SLGCO	2	98	0	0

Total Recovered: 3025 ft
Total Barrels Recovered: 43.04575

Reversed Out
NO

Initial Hydrostatic Pressure	2030	PSI
Initial Flow	28 to 37	PSI
Initial Closed in Pressure	1372	PSI
Final Flow Pressure	42 to 70	PSI
Final Closed in Pressure	1399	PSI
Final Hydrostatic Pressure	2005	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 231.4419



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
04
2022

DST #3 Formation: Viola Test Interval: 4104 - Total Depth: 4150'
4150'
Time On: 18:47 03/04 Time Off: 01:56 03/05
Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

BUCKET MEASUREMENT:

1st Open: 1 1/2" blow building to BOB 1 1/2 min.

1st Close: No BB

2nd Open: BOB instantaneously

2nd Close: No BB

REMARKS:

Gas blew tool sample out.

Gravity: 35.7 @ 60 °F



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
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Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
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DATE
March
04
2022

DST #3 **Formation: Viola** **Test Interval: 4104 - 4150'** **Total Depth: 4150'**
Time On: 18:47 03/04 Time Off: 01:56 03/05
Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

Down Hole Makeup

Heads Up: 25.41 FT	Packer 1: 4099.3 FT
Drill Pipe: 4097.14 FT <i>ID-3 1/2</i>	Packer 2: 4104.3 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4088.72 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4143 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 45.7	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.70 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
04
2022

DST #3 Formation: Viola Test Interval: 4104 - Total Depth: 4150'
4150'
Time On: 18:47 03/04 Time Off: 01:56 03/05
Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 53 **Filtrate:** 8.8 **Chlorides:** 11,000 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
04
2022

DST #3 Formation: Viola Test Interval: 4104 - 4150' Total Depth: 4150'
Time On: 18:47 03/04 Time Off: 01:56 03/05
Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
05
2022

DST #4 **Formation: Arbuckle** **Test Interval: 4199 - 4299'** **Total Depth: 4299'**

Time On: 19:58 03/05 Time Off: 04:25 03/06
Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

Electronic Volume Estimate:
691'

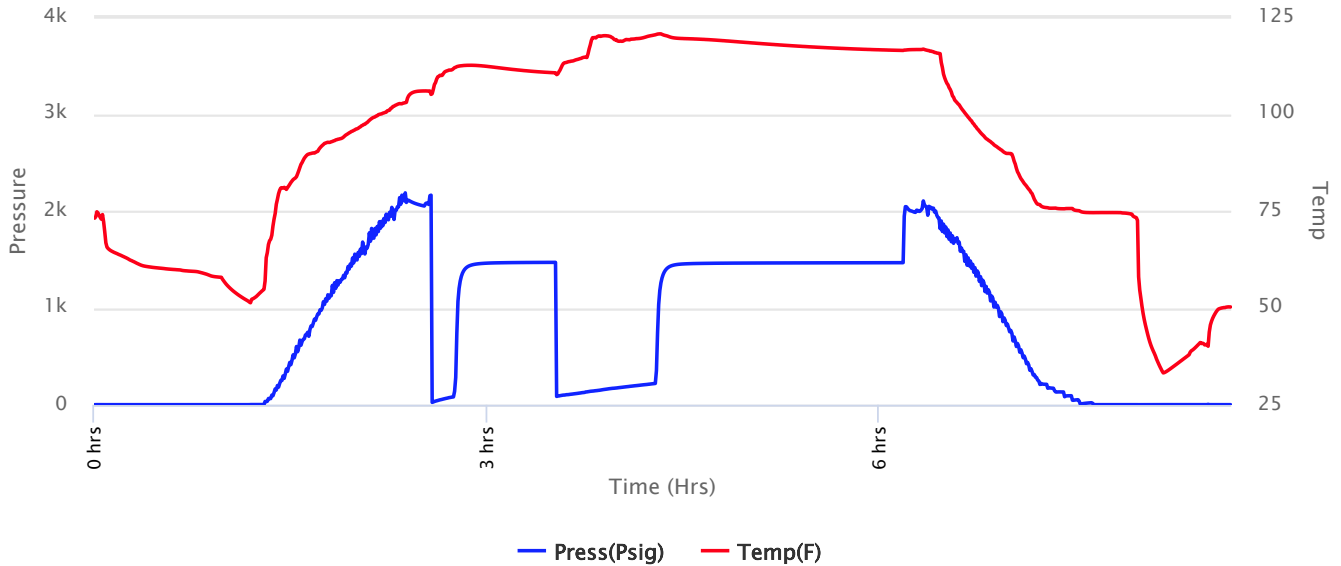
1st Open
Minutes: 10
Current Reading:
18.9" at 10 min
Max Reading: 18.9"

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

2nd Open
Minutes: 45
Current Reading:
45.8" at 45 min
Max Reading: 45.8"

2nd Close
Minutes: 110
Current Reading:
0" at 110 min
Max Reading: 0"

Inside Recorder





Company: Edison Operating Company, LLC
Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1973 GL
 Field Name: Dillwin
 Pool: Infield
 Job Number: 554
 API #: 15-185-24102

Operation:
 Uploading recovery & pressures

DATE
 March
05
 2022

DST #4 Formation: Arbuckle Test Interval: 4199 - 4299' Total Depth: 4299'

Time On: 19:58 03/05 Time Off: 04:25 03/06
 Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

Recovered

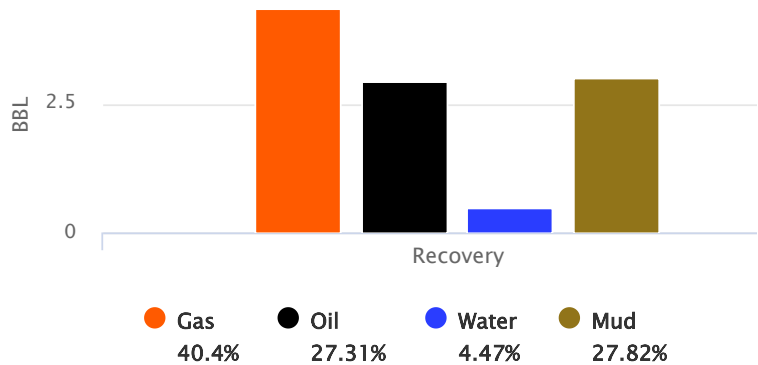
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
285	4.05555	G	100	0	0	0
220	3.1306	HOCM	0	46	0	54
125	1.77875	SLGCHMCO	11	57	0	32
125	1.77875	SLGCWCOCM	5	27	27	41

Total Recovered: 755 ft
 Total Barrels Recovered: 10.74365

Reversed Out
 NO

Initial Hydrostatic Pressure	2066	PSI
Initial Flow	25 to 82	PSI
Initial Closed in Pressure	1469	PSI
Final Flow Pressure	87 to 221	PSI
Final Closed in Pressure	1466	PSI
Final Hydrostatic Pressure	2044	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	0.2	%

Recovery at a glance



GIP cubic foot volume: 24.36777



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
05
2022

DST #4 Formation: Arbuckle Test Interval: 4199 - Total Depth: 4299'
4299'

Time On: 19:58 03/05 Time Off: 04:25 03/06
Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

BUCKET MEASUREMENT:

1st Open: 3/4" blow building to BOB 6 1/2 min.

1st Close: No BB

2nd Open: 1/4" blow building to BOB 11 1/2 min.

2nd Close: No BB

REMARKS:

My alarm didn't go off, therefore we were late coming off bottom 20 min.

Tool Sample: 16% Gas 37% Oil 36% Water 11% Mud

Ph: 6.5

Measured RW: .4 @ 47 degrees °F

RW at Formation Temp: 0.168 @ 121 °F

Chlorides: 24,000 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1973 GL
 Field Name: Dillwin
 Pool: Infield
 Job Number: 554
 API #: 15-185-24102

Operation:
 Uploading recovery & pressures

DATE
 March
05
 2022

DST #4 Formation: Arbuckle Test Interval: 4199 - 4299' Total Depth: 4299'
 Time On: 19:58 03/05 Time Off: 04:25 03/06
 Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

Down Hole Makeup

Heads Up: 23.67 FT	Packer 1: 4194.17 FT
Drill Pipe: 4190.27 FT <i>ID-3 1/2</i>	Packer 2: 4199.17 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4183.59 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4270 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 99.83	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 63.83 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 30 FT <i>4 1/2-FH</i>	



**Company: Edison Operating
Company, LLC**

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery &
pressures

DATE
March
05
2022

DST #4 Formation: Arbuckle Test Interval: 4199 - Total Depth: 4299'
4299'

Time On: 19:58 03/05 Time Off: 04:25 03/06
Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

Mud Properties

Mud Type: Chemical **Weight:** 8.9 **Viscosity:** 54 **Filtrate:** 8.8 **Chlorides:** 8,500 ppm



Company: Edison Operating Company, LLC

Lease: Doran #2-16

SEC: 16 TWN: 24S RNG: 14W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1973 GL
Field Name: Dillwin
Pool: Infield
Job Number: 554
API #: 15-185-24102

Operation:
Uploading recovery & pressures

DATE
March
05
2022

DST #4 Formation: Arbuckle Test Interval: 4199 - 4299' Total Depth: 4299'

Time On: 19:58 03/05 Time Off: 04:25 03/06
Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:
EDISON OPERATING CO LLC
8100 E 22ND ST N
BUILDING 1900
WICHITA, KS 67226

Invoice Date: 2/26/2022
Invoice #: 0358962
Lease Name: Doran
Well #: 2-16
County: Stafford, Ks
Job Number: WP2452
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-CON	190.000	19.320	3,670.80
Cement Class A	190.000	17.480	3,321.20
Calcium Chloride	358.000	0.690	247.02
Cello Flake	49.000	1.610	78.89
Wooden plug 8 5/8"	1.000	138.000	138.00
Light Eq Mileage	25.000	1.840	46.00
Heavy Eq Mileage	50.000	3.680	184.00
Ton Mileage	448.000	1.380	618.24
Cement Blending & Mixing	380.000	1.288	489.44
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Plug Container	1.000	230.000	230.00
Cement Data Acquisition	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00

3/16 mg
Cement For 8 5/8" CSW
9208
W.

Total 10,448.59

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	Edison Operating Company	Lease & Well #	Doran 2-18	Date	2/26/2022
Service District	Pratt Kansas	County & State	Stafford Kansas	Legals S/T/R	16-24a-14w
Job Type	Surface	<input checked="" type="checkbox"/> PROD' <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			Ticket #
818	M Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
178/521	B Brockman	<input type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
181/833	B Whitfield	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
cp025	H-Con			
cp010	Class A Cement	sack	190.00	\$3,870.80
cp100	Calcium Chloride	sack	190.00	\$3,321.20
cp120	Cello-floke	lb	358.00	\$247.02
te290	8 5/8 wooden plug	lb	49.00	\$78.89
m015	Light Equipment Mileage	mi	1.00	\$138.00
m010	Heavy Equipment Mileage	mi	25.00	\$48.00
m020	Ton Mileage	tm	448.00	\$184.00
c060	Cement Blending & Mixing Service	sack	380.00	\$618.24
d010	Depth Charge: 0'-500'	job	1.00	\$489.44
c050	Cement Plug Container	job	1.00	\$920.00
c035	Cement Date Acquisition	job	1.00	\$230.00
r041	service supervisor	day	1.00	\$230.00

Customer Section: On the following scale, how would you rate HSI's service?

Based on this job, how likely is it you would recommend HSI to a colleague?

1 2 3 4 5 6 7 8 9 10 Extremely Likely

Total Taxable	\$ -	Tax Rate:		Net:	\$10,448.59
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.				Sale Tax:	\$ -
				Total:	\$ 10,448.59

HSI Representative: **MARK BRUNGARDT**

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to effect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and meter/fees ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X  CUSTOMER AUTHORIZATION SIGNATURE

**CEMENT TREATMENT REPORT**

Customer:	Edison Operating Company	Well:	Doran 2-16	Ticket:	wp 2452
City, State:	St John Kansas	County:	Stafford Kansas	Date:	2/26/2022
Field Rep:	Frank Rome	S.T.R.:	16-24s-14w	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	369 ft
Casing Size:	8 5/8 in
Casing Depth:	370 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	22.0 bbls

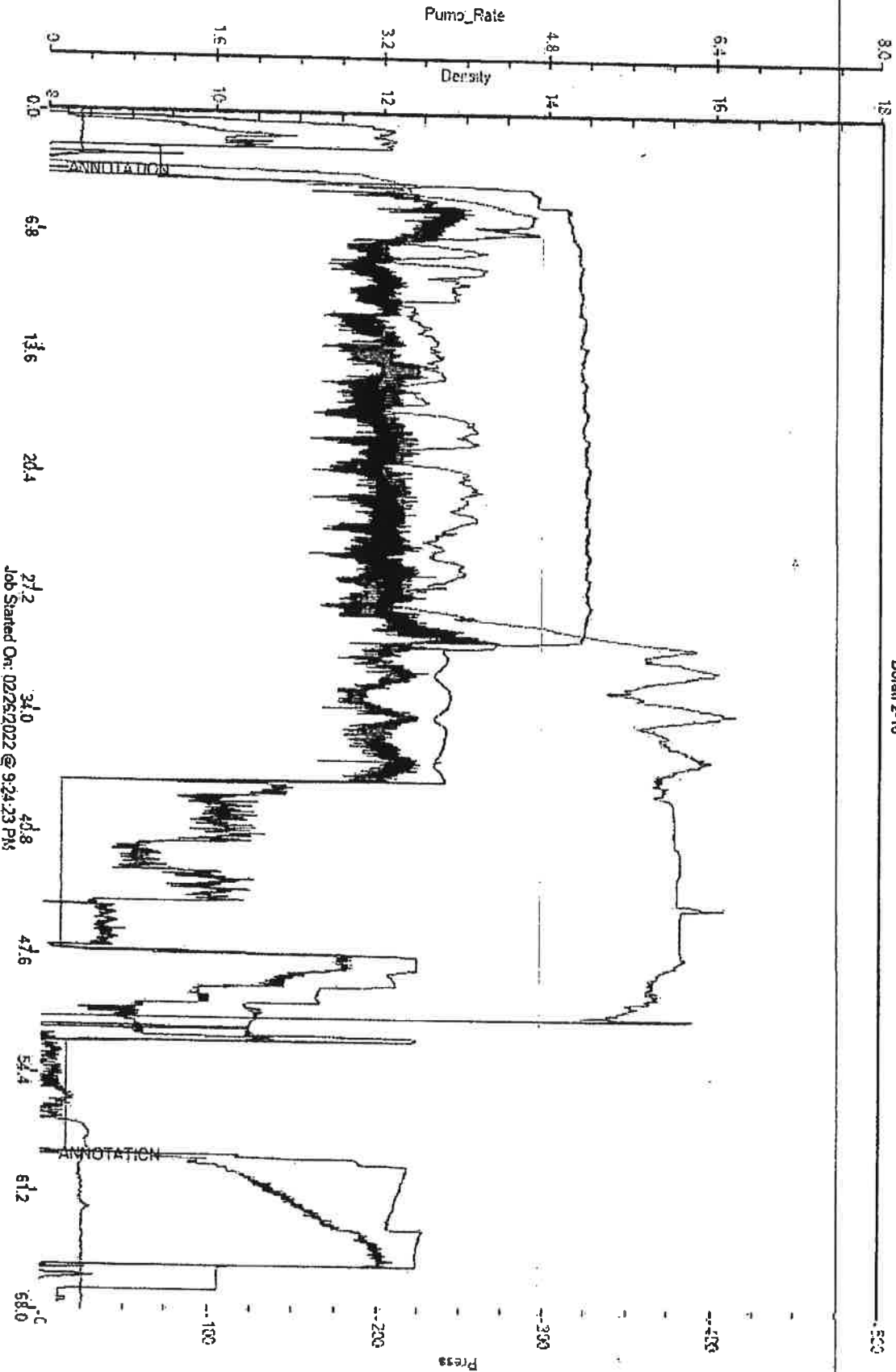
Calculated Slurry - Lead	
Blend:	H-Con
Weight:	12.0 ppg
Water / Sk:	12.3 gal / sk
Yield:	2.17 ft ³ / sk
Annular DBls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	73.4 bbls
Total Sacks:	190 sk

Calculated Slurry - Tail	
Blend:	A 2% CC
Weight:	15.0 ppg
Water / Sk:	6.2 gal / sk
Yield:	1.20 ft ³ / sk
Annular DBls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	40.6 bbls
Total Sacks:	190 sk

TIME	RATE	PSI	STAGE BBLs	TOTAL DBLs	REMARKS
8:00 PM			-	-	on location job and safety
8:15 PM				-	spot trucks and rig up
8:00 PM				-	start casing in the hole
8:20 PM				-	on bottom and circulate
8:30 PM				-	start cement
	2.0	200.0	6.0	6.0	fresh water
	6.0	200.0	73.0	78.0	mix 190 sacks h con
	6.0	200.0	40.0	118.0	mix 190 sacks a 2%cc
10:25 PM					cement in and shut down pump
10:30 PM				-	release the plu
				-	start displacement
10:45 PM	8.6	130.0			displacement in and close in the well
					cement did circulate 16 bbls to the pit

CREW		UNIT	SUMMARY		
Cementor:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	B Brockman	179/521	3.9 bpm	183 psi	118 bbls
Bulk #1:	B Whitfield	181/533			
Bulk #2:					

Edison Operating
Doran 2-16



Job Started On: 02/26/2022 @ 9:24:23 PM



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

EDISON OPERATING CO LLC
8100 E 22ND ST N
BUILDING 1900
WICHITA, KS 67226

Invoice Date: 3/7/2022
Invoice #: 0359278
Lease Name: Doran
Well #: 2-16 (New)
County: Stafford, Ks
Job Number: WP2487
District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	175.000	25.760	4,508.00
H-Plug	50.000	11.960	598.00
5 1/2" Floatshoe-Flapper AFU	1.000	345.000	345.00
5 1/2" LD Plug & Baffle	1.000	322.000	322.00
5 1/2" Turbolizers	11.000	115.000	1,265.00
Mud flush	500.000	0.920	460.00
Liquid KCL Substitute 2	5.000	18.400	92.00
Light Eq Mileage	25.000	1.840	46.00
Heavy Eq Mileage	50.000	3.680	184.00
Ton Mileage	259.000	1.380	357.42
Cement Blending & Mixing	225.000	1.288	289.80
Depth Charge 4001'-5000'	1.000	2,300.000	2,300.00
Cement Plug Container	1.000	230.000	230.00
Cement Data Acquisition	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00

3/31 mmo
CEMENT FOR 5 1/2" CSW
9318

Total 11,502.22

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	EDISON OPERATING		Lease & Well #	DORAN 2-16		Date	3/7/2022	
Service District	PRATT, KS.		County & State	STAFFORD, KS.		Legal's S1/R	16-24S-14W	
Job Type	LONGSTRING	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No	Ticket #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures						
926	LESLEY	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging			
526-522	OSBORN	<input type="checkbox"/> H2S Monitor	<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection			
181-533	TRAVINO	<input type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations			
		<input type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations			
		<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below				
Comments								
4400' 5 1/2" LONGSTRING								

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	175.00	\$4,508.00
CP055	H-Plug	sack	50.00	\$598.00
FE146	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$345.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$322.00
FE135	5 1/2 Turbolizer	ea	11.00	\$1,265.00
CP170	Mud Flush	gal	500.00	\$480.00
AF056	Liquid KCL Substitute 2	gal	5.00	\$92.00
M015	Light Equipment Mileage	mi	25.00	\$48.00
M010	Heavy Equipment Mileage	mi	50.00	\$184.00
M020	Ton Mileage	tn	255.00	\$357.42
CP050	Cement Blending & Mixing Service	sack	255.00	\$289.80
CP015	Depth Charge: 4001'-5000'	job	1.00	\$2,300.00
CP050	Cement Plug Container	job	1.00	\$230.00
CP050	Cement Data Acquisition	job	1.00	\$230.00
CP051	Service Supervisor	day	1.00	\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	<input type="checkbox"/> 9	<input type="checkbox"/> 10
	Unlikely									Extremely Likely

Total Taxable	\$ -	Tax Rate:		Net:	\$11,502.22
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.				Sale Tax:	\$ -
				Total:	\$ 11,502.22

HSI Representative: *Karen Lesley*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X *[Signature]* CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

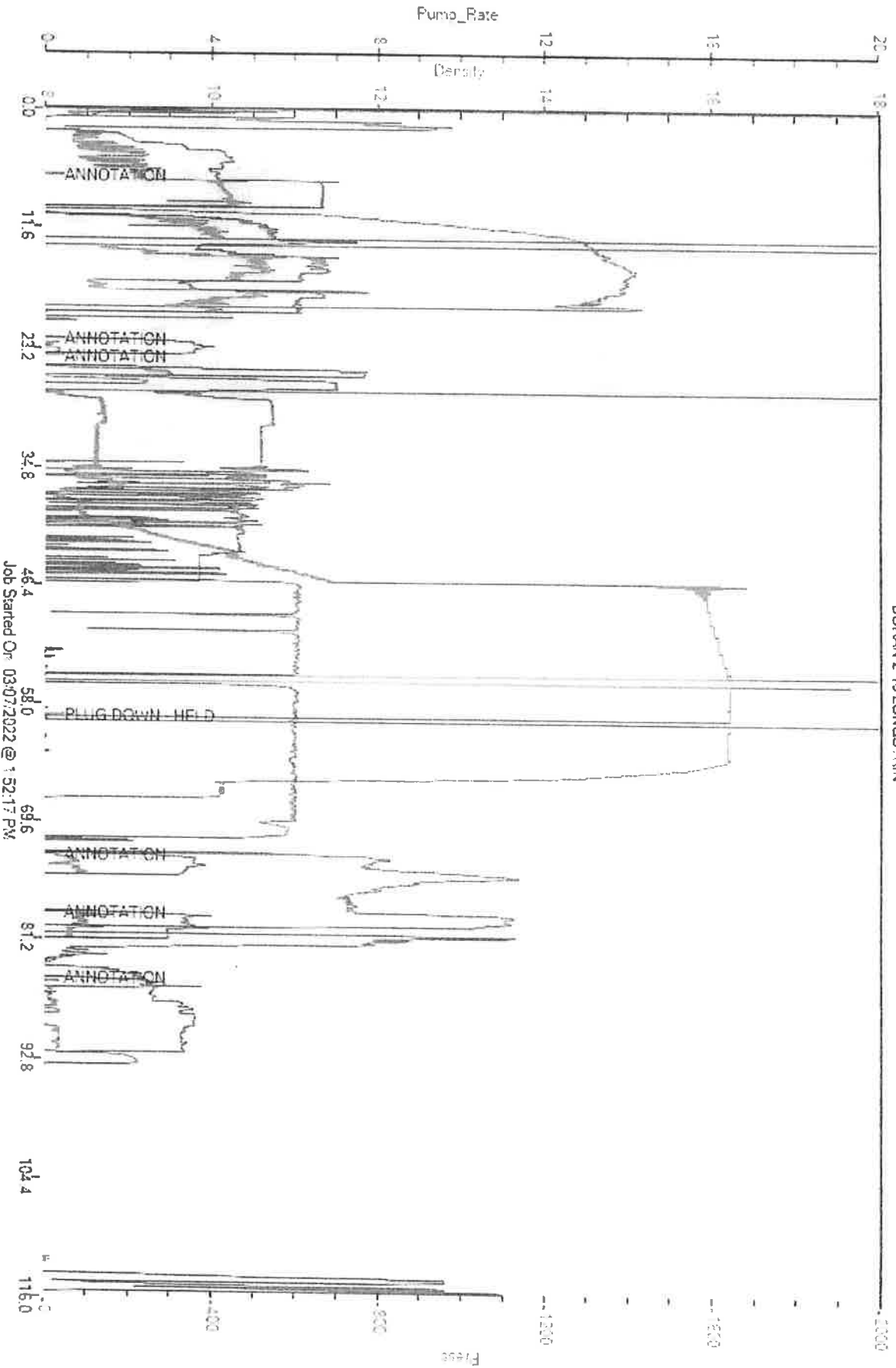
Customer: EDISON OPERATING	Well: DORAN 2-16	Ticket: WP 2487
City, State:	County: STAFFORD, KS.	Date: 3/7/2022
Field Rep: RICK POPP	S-T-R: 16-24S-14W	Service: LONGSTRING

Downhole Information		14#	Blend:		Calculated Slurry - Tail	
181-533	7 7/8 in			Blend:	H-LONG	
Hole Depth:	4402 ft		Weight:	15 ppg		
Casing Size:	5 1/2 in		Water / Sx:	6.0 gal / sx		
Casing Depth:	4400 ft		Yield:	1.42 ft³ / sx		
Tubing / Liner:	in		Annular Bbls / Ft.:	bbs / ft.		
PLUG Depth:	4355.54 ft		Depth:	ft		
Tool / Packer:			Annular Volume:	0.0 bbls		
Tool Depth:	ft		Excess:			
Displacement:	106.3 bbls		Total Slurry:	44.3 bbls		
			Total Sacks:	175 sx		

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:00AM			-	-	ON LOCATION- SPOT EQUIPMENT
9:00AM			-	-	RUN 98 JTS. 5 1/2" X 14# CASING - SHOE JOINT= 44.46'
			-	-	TURBOLIZERS- 1,2,3,4,6,7,8,9,12,13,14
			-	-	CASING ON BOTTOM
11:00AM			-	-	HOOK UP TO CASING- BREAK CIRCULATION WITH RIG PUMP AND MUD
1:00PM	6.0	350.0	12.0	12.0	MUDFLUSH
1:03PM	6.0	300.0	20.0	32.0	H2o SPACER WITH 2% KCL
1:08PM	6.0	200.0	44.3	76.3	MIX 175 SKS H-LONG CEMENT @ 15 PPG
1:17PM				76.3	SHUT DOWN- CLEAR PUMP AND LINES
1:23PM	6.0	150.0	-	76.3	START DISPLACEMENT WITH 2% KCL H2o
1:38PM	5.0	400.0	79.0	155.3	LIFT PRESSURE
1:43PM	4.0	700.0	100.0		SLOW RATE
1:45PM	3.0	1,500.0	106.3		PLUG DOWN- HELD
					CIRCULATION THRU JOB
2:00PM			7.0		PLUG RATHOLE WITH 30 SKS H-PLUG
2:15PM			5.0		PLUG MOUSEHOLE WITH 20 SKS H-PLUG
2:30PM					WASH UP PUMP TRUCK
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	926	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	526-522	5.1 bpm	514 psi	374 bbls
Bulk #1:	TRAVINO	181-533			
Bulk #2:					

EDISON OPERATING
DORAN 2-16 LONGSTRING





EDISON OPERATING COMPANY_{LLC}

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

Well Name: Doran #2-16
API: API # 15-185-24102-0000
Location: Section 16-T24S-R14W Stafford Co., Kansas
License Number: _____ Region: Dillwin
Spud Date: 2/26/2022 Drilling Completed: 3/7/2022
Surface Coordinates: 1661' FSL & 2310' FEL
(3-D Location)
Bottom Hole
Coordinates:
Ground Elevation (ft): 1973' K.B. Elevation (ft): 1983'
Logged Interval (ft): 3000' To: 4402' Total Depth (ft): LTD - 4402
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

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

OPERATOR

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

GEOLOGIST

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

REMARKS

After review of the geologic log, DST results, and the open hole electric logs for the Doran #2-16, it was decided upon by operator to run 5 1/2" production casing for further evaluation fo said well.

Note: All drill time and DST intervals have been shifted 5' shallow (higher) to match electric logs.

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

Respectfully Submitted,

Adam T. Kennedy

GENERAL INFORMATION

Service Companies

Drilling Contractor: Southwind Drilling - Rig #3
 Tool Pusher: Frank Rome
 Daylight Driller: Jay Krier
 Evening Driller: Mike Savage
 Morning Driller: Shawn Epp

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

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

Logging Company: Eli Wireline
 Engineer: Jeff Lubbers
 Logs Ran: PE, CNDL, DIL, SON

Testing Company: Diamond Testing
 Tester: Tim Venters

Deviation Survey

Depth	Survey
369'	3/4°
4402'	3/4°

Pipe Strap

Depth	Pipe Strap
3774'	6.01 Short to board

Bit Record

Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	12 1/4	RT	RR	-	0	370	370	3
2	7 7/8	PDC	PDC	-	367	2267	1900	21.25
3	7 7/8	JZ	HA23C	-	2267	4402	2135	83

Surface Casing

2.26.2022 Ran 9 joints of new 23#, tally @ 354.63. Set @ 369.63. Used 380 sacks total, 190 of H-con 190 sacks of 2% cc, cement circulated, by Hurricane services, ticket # WP2452, plug down @ 10:45 PM on 2.26.22

Production Casing Info

3.07.2022 Ran 98 joints of new 14# 5 1/2 casing, tally @ 4390', set @4400', used 175 sacks of H-long. 30 sacks of RH, 20 sacks MH, by Hurricane, ticket #WP2487, plug down @ 1:45pm on 3.7.22.

DAILY DRILLING REPORT

Date	0700 Hrs Depth	Previous 24 Hours of Operations
3.2.2022	3600'	Geologist, Adam T. Kennedy on location @ 3650', 0900 hrs 3.2.22. Currently Drilling ahead through Douglas and Brown Lime. Made 672' over past 24 hrs. WOB: 30-32k RPM: 75 PP: 950 SPM: 60 DMC: \$1,461.85 CMC: \$6,669.87
3.3.2022	3774'	Conduct 15 stand short trip, CTCH, resume drilling. Drilling and connections Lansing, cfs @ 3761'. Shows warrant test, conduct short trip, TOH for DST #1. Run survey and strap out, strap 6.01 STB. Conduct test, TIH to resume drilling LKC. CFS @ 3817'. Shows warrant test, prepare for DST #2. Made 174' over past 24 hrs. WOB: 30k RPM: 75 PP: 850 SPM: 60 DMC: \$0.00 CMC: \$6,669.87
3.4.2022	3979'	Conduct DST #2. TIH to resume drilling, drilling and connections Lansing, Marmaton. Made 204' over past 24 hrs. WOB: 32k RPM: 75 PP: 950 SPM: 60 DMC: \$973.23 CMC: \$7,643.10
3.5.2022	4190'	Drilling and connections to Viola, cfs @ 4151'. Shows warrant test, TOH to conduct DST #3. Conduct test, TIH to resume drilling. Currently drilling through lower Viola. Made 211' over past 24 hrs. WOB: 32k RPM: 75 PP: 950 SPM: 60 DMC: \$812.81 CMC: \$9,300.15
3.6.2022	4299'	Drilling and connections Viola, Arbuckle. CFS @ 4299'. Conduct test, TIH to resume drilling. Made 109' over pas 24 hrs. WOB: 32k RPM: 75 PP: 950 SPM: 60 DMC: \$962.38 CMC: \$10,262.53
3.7.2022	4402'	Drilling and connections Arbuckle, RTD of 4405' reached @ 15:00 hrs 3.6.2022. CTCH and TOH for logging operations. Logging completed 22:00hrs 3.6.2022. Geologist off location @ 1700 hrs 3.6.2022. WOB: 336k RPM: 75 PP: 950 SPM: 60 DMC: \$0.00 CMC: \$10,262.63

WELL COMPARISON SHEET

Formation	Drilling Well				Comparison Well				Comparison Well				Comparison Well			
	Edison Operating - Doran #2-16 Sec. 16 - T24S - R14W 1661' FSL & 2310' FEL 1973 GL 1983 KB				Sunray DX - Cotton #1 Sec. 16 - T24S - R14W NW NW SE Oil - Arb/Miss 1978 KB				D R Lauck - Cotton #1 Sec. 16 - T24S - R14W SW SW NE Oil - Arb 1985 KB				Edison Operating - Doran Unit #1-16 Sec. 16 - T24S - R14W 2726' FSL & 787' FEL Oil - Arb 1986 KB			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3520	-1537	3514	-1531	3521	-1543	6	12	3538	-1553	16	22	3525	-1539	2	8
Toronto	3540	-1557	3533	-1550	3541	-1563	6	13	3558	-1573	16	23	3546	-1560	3	10
Douglas	3560	-1577	3551	-1568	3557	-1579	2	11	3576	-1591	14	23	3564	-1578	1	10
Brown Lime	3662	-1679	3656	-1673	3665	-1687	8	14	3682	-1697	18	24	3667	-1681	2	8
Lansing-Kansas City	3680	-1697	3676	-1693	3684	-1706	9	13	3703	-1718	21	25	3688	-1702	5	9
LKC 'B'	3696	-1713	3691	-1708	3702	-1724	11	16	3719	-1734	21	26	3704	-1718	5	10
LKC 'D'	3720	-1737	3715	-1732	3725	-1747	10	15	3742	-1757	20	25	3729	-1743	6	11
LKC 'G'	3766	-1783	3761	-1778	3771	-1793	10	15	3788	-1803	20	25	3774	-1788	5	10
Muncie Creek	3800	-1817	3793	-1810	3804	-1826	9	16	3824	-1839	22	29	3806	-1820	3	10
LKC 'H'	3803	-1820	3797	-1814	3807	-1829	9	15	3826	-1841	21	27	3809	-1823	3	9
LKC 'I'	3826	-1843	3816	-1833	3827	-1849	6	16	3846	-1861	18	28	3829	-1843	0	10
LKC 'J'	3842	-1859	3830	-1847	3842	-1864	5	17	3860	-1875	16	28	3843	-1857	-2	10
Stark	3875	-1892	3865	-1882	3876	-1898	6	16	3894	-1909	17	27	3876	-1890	-2	8
LKC 'K'	3879	-1896	3874	-1891	3881	-1903	7	12	3900	-1915	19	24	3884	-1898	2	7
Hushpuckney	3910	-1927	3901	-1918	3910	-1932	5	14	3927	-1942	15	24	3910	-1924	-3	6
LKC 'L'	3921	-1938	3910	-1927	3922	-1944	6	17	3936	-1951	13	24	3919	-1933	-5	6
Base Kansas City	3947	-1964	3938	-1955	3946	-1968	4	13	3962	-1977	13	22	3949	-1963	-1	8
Marmaton	3955	-1972	3950	-1967	3964	-1986	14	19	3978	-1993	21	26	3963	-1977	5	10
Viola	4109	-2126	4088	-2105	4165	-2187	61	82	4165	-2180	54	75	4125	-2139	13	34
Simpson Shale	4235	-2252	4229	-2246	4244	-2266	14	20	4260	-2275	23	29	4229	-2243	-9	-3
Arbuckle	4292	-2309	4288	-2305	4303	-2325	16	20	4311	-2326	17	21	4284	-2298	-11	-7
Total Depth	4405	-2422	4402	-2419	4315	-2337	-85	-82	4316	-2331	-91	-88	4420	-2434	12	15

DATE
 March
02
 2022

DST #1 **Formation: L/KC "B-F"** **Test Interval: 3700 - 3760'** **Total Depth: 3760'**

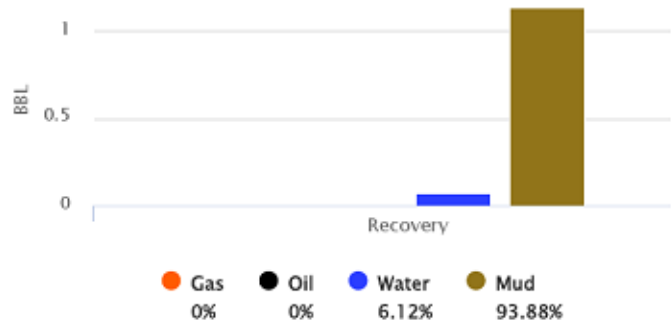
Time On: 20:02 03/02 Time Off: 02:48 03/03
 Time On Bottom: 21:51 03/02 Time Off Bottom: 00:46 03/03

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.2846	M	0	0	0	100
65	0.92495	SLWCM	0	0	8	92

Total Recovered: 85 ft
 Total Barrels Recovered: 1.20955

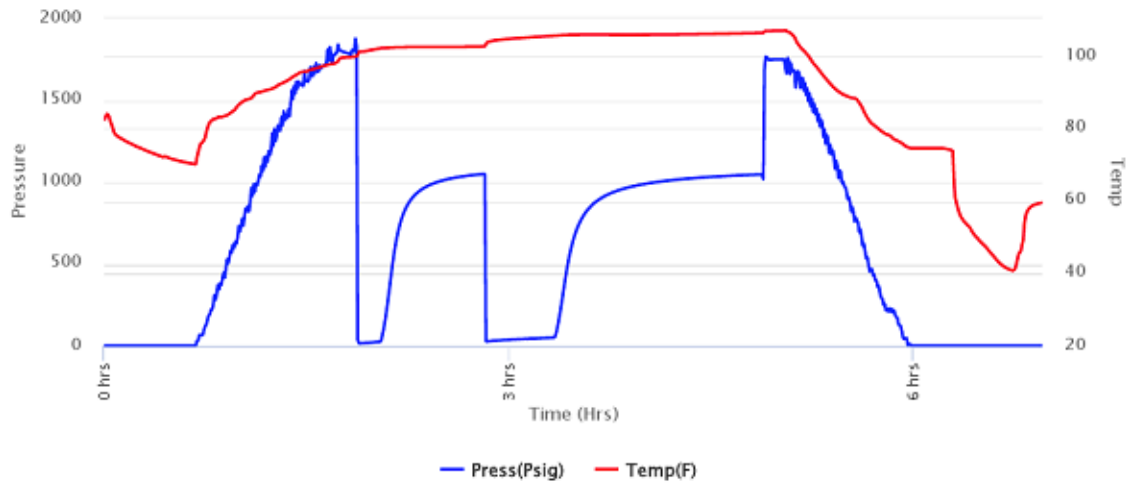
**Reversed Out
 NO**

Recovery at a glance



Initial Hydrostatic Pressure	1798	PSI
Initial Flow	15 to 26	PSI
Initial Closed in Pressure	1049	PSI
Final Flow Pressure	26 to 51	PSI
Final Closed in Pressure	1047	PSI
Final Hydrostatic Pressure	1766	PSI
Temperature	107	°F
 Pressure Change Initial Close / Final Close	 0.2	 %

GIP cubic foot volume: 0



DATE
 March
03
 2022

DST #2 **Formation: L/KC "H"** **Test Interval: 3796 - 3815'** **Total Depth: 3815'**

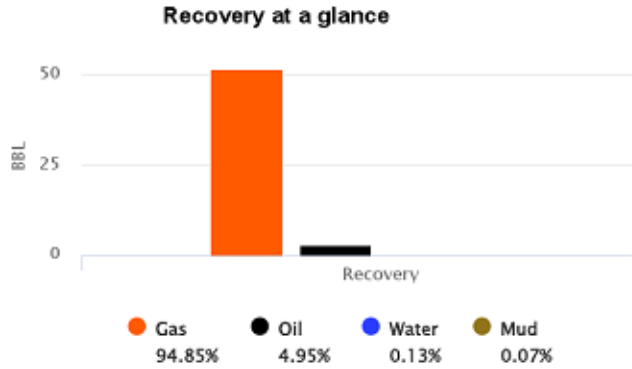
Time On: 11:05 03/03 Time Off: 18:01 03/03
 Time On Bottom: 12:35 03/03 Time Off Bottom: 15:45 03/03

<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
3560	50.6588	G	100	0	0	0
255	3.62865	SLMCSLWCGCO	23	74	2	1

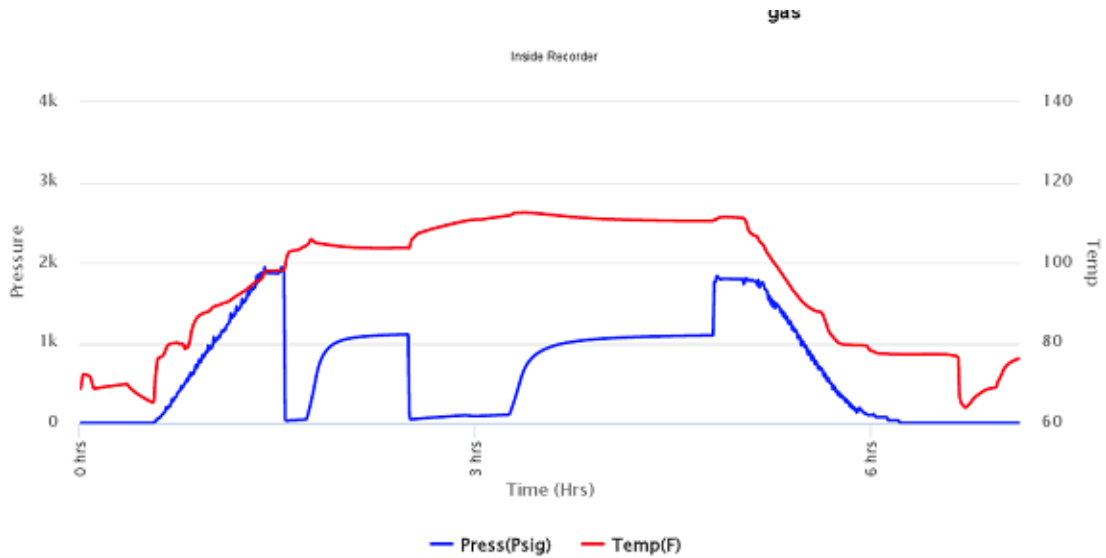
Total Recovered: 3815 ft
 Total Barrels Recovered: 54.28745

Reversed Out
NO

Initial Hydrostatic Pressure	1867	PSI
Initial Flow	27 to 47	PSI
Initial Closed in Pressure	1106	PSI
Final Flow Pressure	43 to 106	PSI
Final Closed in Pressure	1095	PSI
Final Hydrostatic Pressure	1834	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	1.0	%



GIP cubic foot volume: 289.10964



DATE
 March
04
 2022

DST #3 Formation: Viola Test Interval: 4104 - Total Depth: 4150'

Time On: 18:47 03/04 Time Off: 01:56 03/05
 Time On Bottom: 20:40 03/05 Time Off Bottom: 23:50 01/01

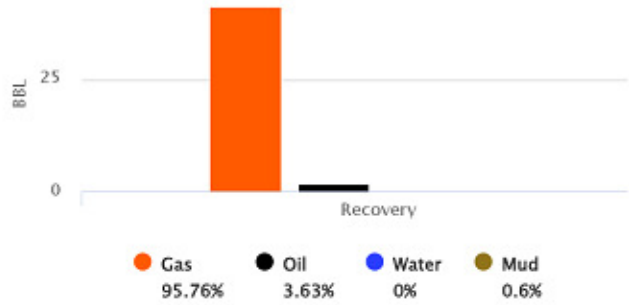
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
2890	41.1247	G	100	0	0	0
10	0.1423	SLGCSLMCO	6	24	0	70
75	1.06725	SLGCSLMCO	7	78	0	15
50	0.7115	SLGCO	2	98	0	0

Total Recovered: 3025 ft
 Total Barrels Recovered: 43.04575

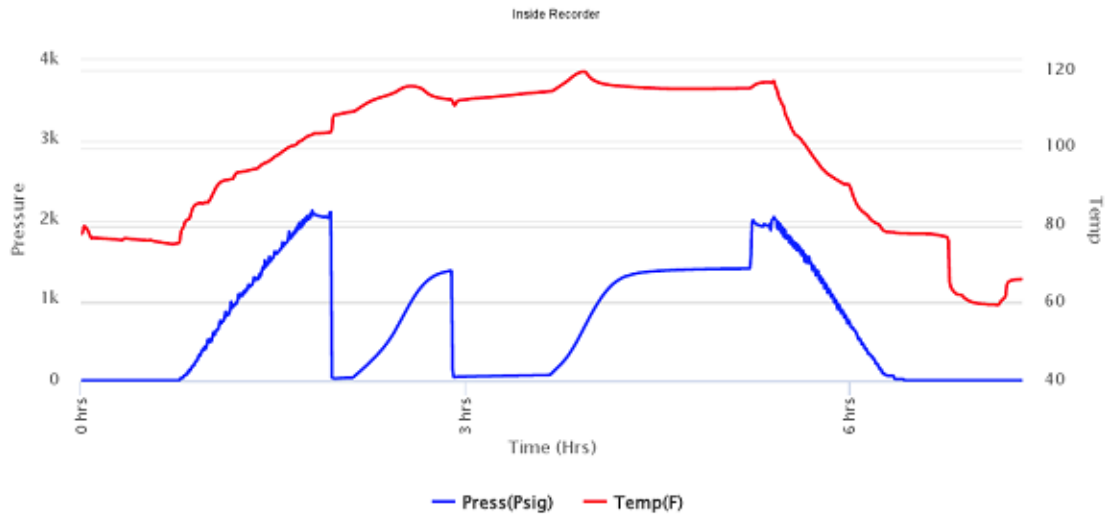
Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2030	PSI
Initial Flow	28 to 37	PSI
Initial Closed in Pressure	1372	PSI
Final Flow Pressure	42 to 70	PSI
Final Closed in Pressure	1399	PSI
Final Hydrostatic Pressure	2005	PSI
Temperature	120	*F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 231.4419



DATE
 March
05
 2022

DST #4 **Formation: Arbuckle** **Test Interval: 4199 - 4299'** **Total Depth: 4299'**

Time On: 19:58 03/05 Time Off: 04:25 03/06
 Time On Bottom: 22:28 03/05 Time Off Bottom: 01:58 03/06

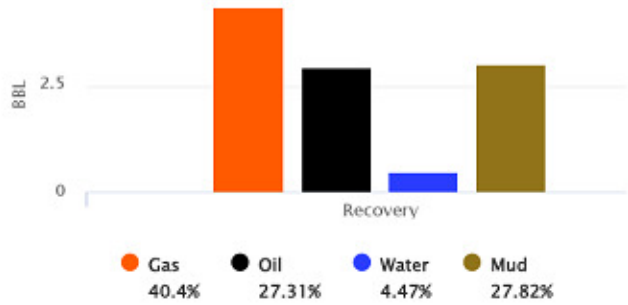
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
285	4.05555	G	100	0	0	0
220	3.1306	HOCM	0	46	0	54
125	1.77875	SLGCHMCO	11	57	0	32
125	1.77875	SLGCWCOCM	5	27	27	41

Total Recovered: 755 ft
 Total Barrels Recovered: 10.74365

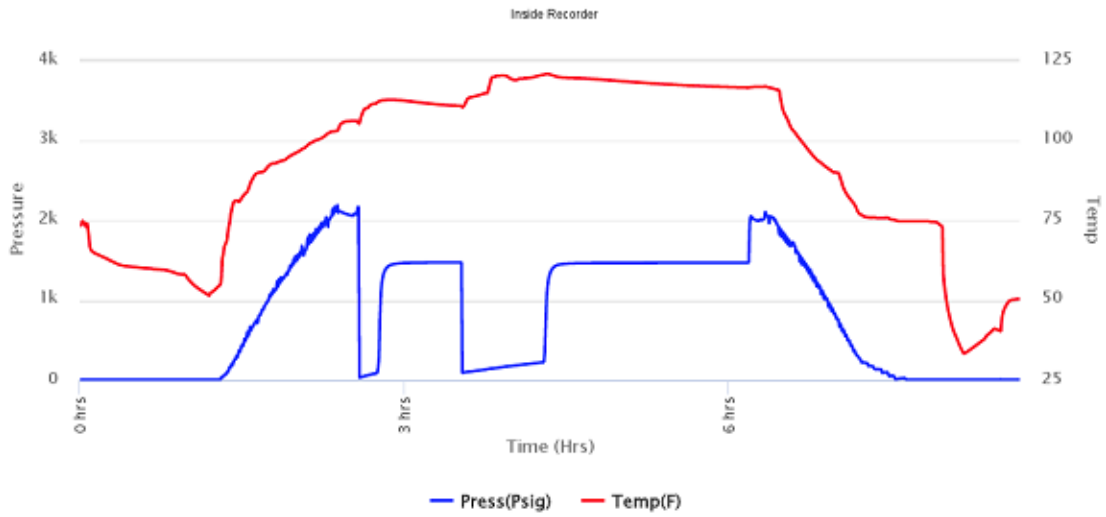
Reversed Out
NO

Initial Hydrostatic Pressure	2066	PSI
Initial Flow	25 to 82	PSI
Initial Closed in Pressure	1469	PSI
Final Flow Pressure	87 to 221	PSI
Final Closed in Pressure	1466	PSI
Final Hydrostatic Pressure	2044	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	0.2	%

Recovery at a glance



GIP cubic foot volume: 24.36777



ROCK TYPES

LITHOLOGY

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

- Siltstn
- Ss
- Dtd
- Pipesymbol

FOSSIL

- Oomoldic
- Bioclst
- Crin
- Fossil
- Oolite

MINERAL

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

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

STRINGER

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

TEXTURE

- Chalky
- Cryxln
- Earthy
- Lithogr
- Microxln

OIL SHOW

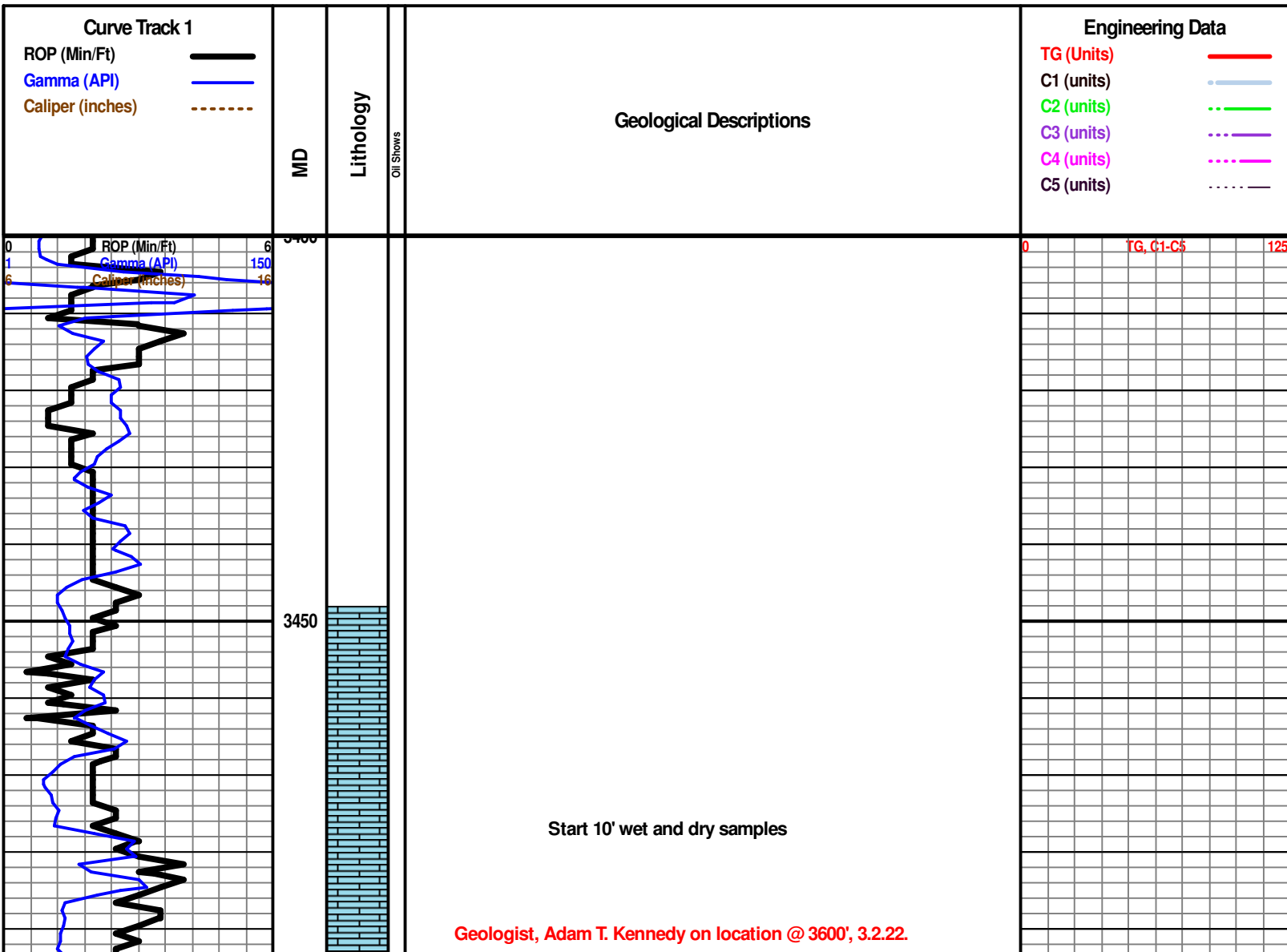
- Gas show
- Even
- Spotted
- Poor
- Dead

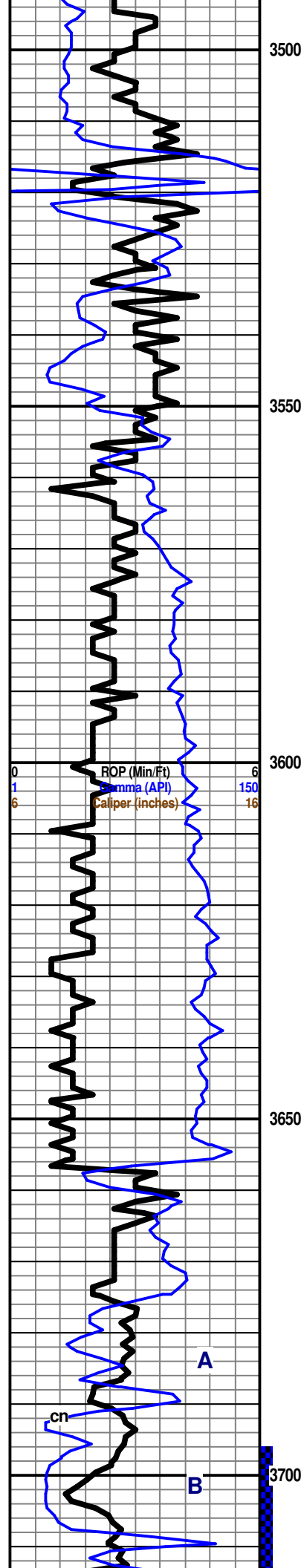
INTERVAL

- Dst1
- Dst2
- Dst3
- Core
- Tail pipe

EVENT

- Open hole





Limestone: cream tan light brown, micro to finexln, fossiliferous, dense chalky matrix, no shows or odor noted.

HEEBNER 3514' (-1531)

Shale: black dark gray, carbonaceous, blocky dense fissle, pyritic, trace gas bubbles.

Shale: gray light gray trace green, soft waxy, chalky.

TORONTO 3533' (-1550)

Limestone: cream tan, micro to finexln, trace fossils, dense xln sub-lithographic matrix, scattered poor interxln inter-oolitic porosity, no shows or odor noted.

DOUGLAS 3551' (-1568)

Shale: brown to dark brown, red, gray, blocky rounded, soft chalky waxy, samples wash dark red/brown.

Shale: gray dark gray brown red, blocky to soft, mushy, waxy, samples chalky and wash gray dark gray.

Shale: gray dark gray, dense, blocky rounded, pyritic, samples soft, mushy, wash gray.

BROWN LIME 3656' (-1673)

Limestone: brown light brown, micro to finexln, dense matrix, poor visible porosity, no shows noted.

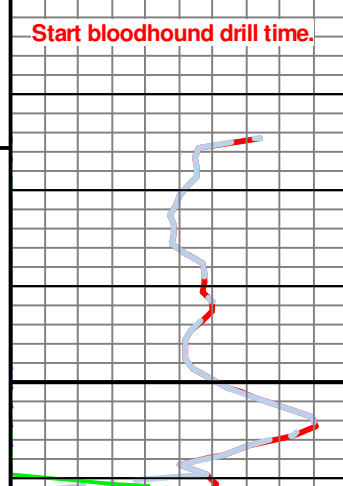
Shale: gray dark gray, blocky dense to fissile, mushy chalky.

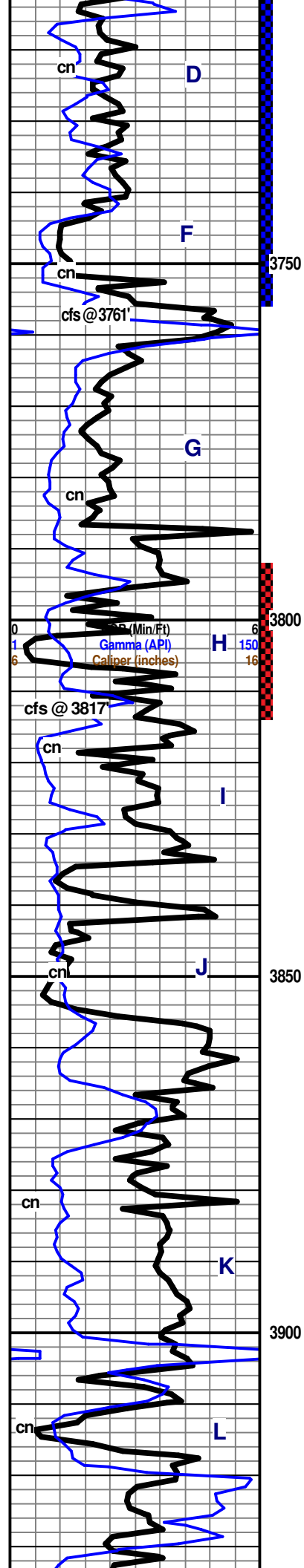
LANSING KANSAS CITY 3676' (-1693)

Limestone: cream tan light brown, micro to finexln, dense xln matrix, large calcite deposits, scattered poor interxln porosity, no shows or odor noted.

Limestone: cream tan light brown, micro to finexln, trace fossils, dense xln matrix, scattered poor to good interxln sub-fossiliferous porosity, faint odor but no visible shows noted.

Mud Co Md Check @3605'
07:00 3.2.22
vis: 56
wt: 9.1
wt: 8.8
Chlr: 4,000
LCM: 3# **TG, C1-C5** 125





Limestone: white cream tan, micro to finexln, fossiliferous, dense xln matrix, scattered poor interxln trace oolitic porosity, scattered light brown stain on edges, faint odor, small show free oil under lamp, pale yellow fl.

Limestone: cream tan light brown, micro to finexln, fossiliferous, dense xln matrix, scattered secondary xln, oolitic, scattered good interxln oolitic sub-oomoldic porosity, fair show free oil and light brown stain, faint odor, pale yellow fl.

Limestone: white cream tan, micro to finexln, fossiliferous oolitic, dense chalky matrix, scattered poor to good interxln oomoldic porosity, some samples altered, soft, chalky, no shows or odor noted.

Limestone: off white light brown, micro to finexln, fossiliferous oolitic, dense chalky matrix, scattered good to very good interxln oomoldic porosity, abundant influx white chert, no shows or odor noted.

MUNCIE CREEK 3793' (-1810)

Shale: gray dark gray, blocky waxy, trace pyrite.

Limestone: white cream light tan, micro to coarse xln, fossiliferous oolitic, abundant oomolit oomoldic vuggy porosity, abundant secondary xln material, most samples 100% even saturated light brown stain, good-excellent show light brown oil increases under lamp and when broken, even yellow fluorescence, milky-white cut fluorescence, strong odor.

Limestone: white cream light tan, microxln to lithographic, fossiliferous, oolitic, dense chalky xln matrix, scattered poor interxln porosity, no shows or odor noted.

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

Limestone: white cream tan, micro to finexln, abundant fossils, oolitic, dense xln chalky matrix, scattered good oomoldic bioclastic porosity, abundant chalk, no shows or odor noted.

Limestone: white cream tan, micro to finexln, fossiliferous oolitic, dense xln matrix, chalky, scattered poor interxln oomoldic porosity, no visible shows, faint odor.

STARK 3865' (-1882)

Shale: black carbonaceous, gray dark gray, waxy blocky.

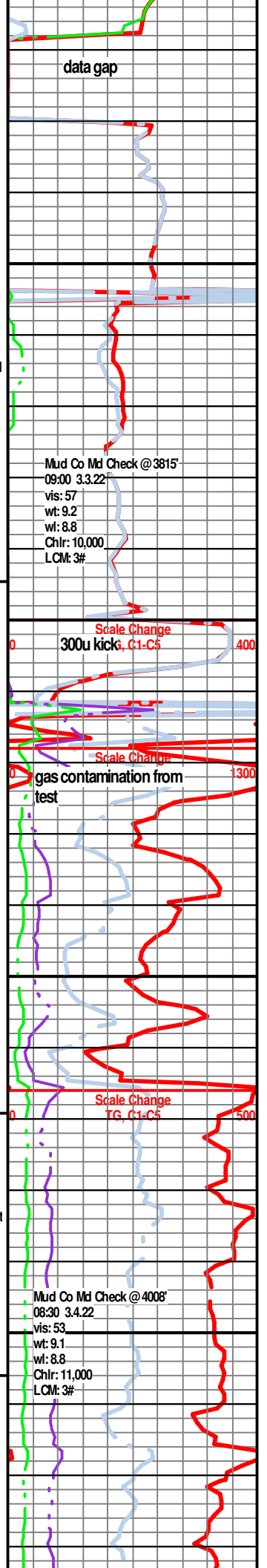
Limestone: white cream tan, micro to finexln, trace fossils, chalky, dense xln matrix, scattered poor interxln trace vuggy porosity, overall very tight, scattered poor edge staining and slight show free oil under lamp, faint odor, pale yellow fl.

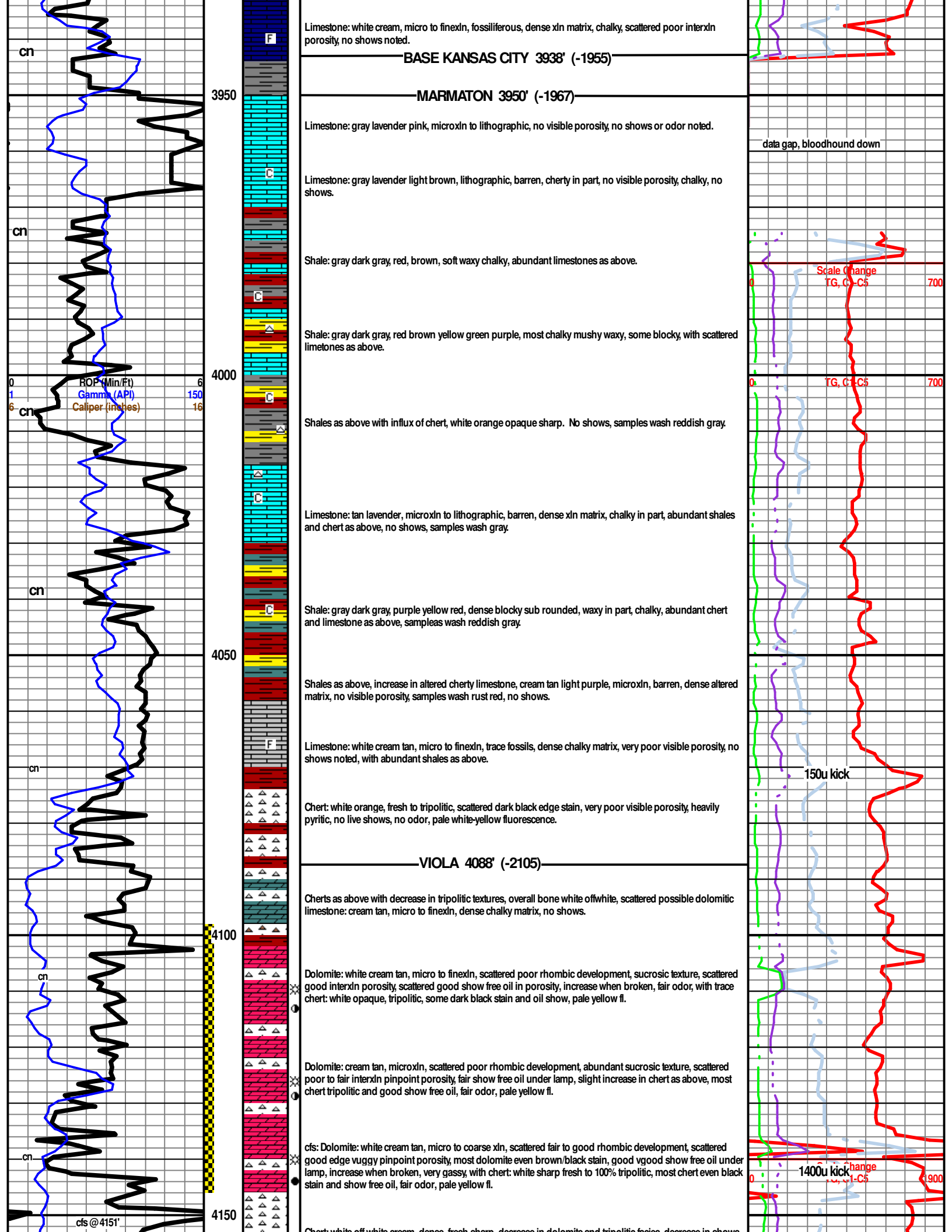
Limestone: cream tan light brown, micrxln, fossiliferous trace oolitic, dense xln matrix, scattered poor pinpoint edge porosity, light brown edge stain, faint odor, scattered pale yellow fl.

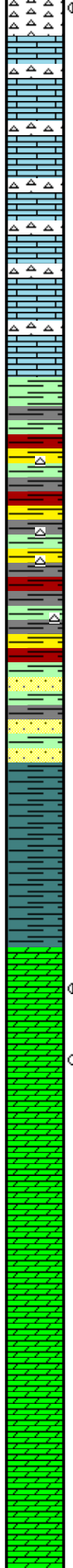
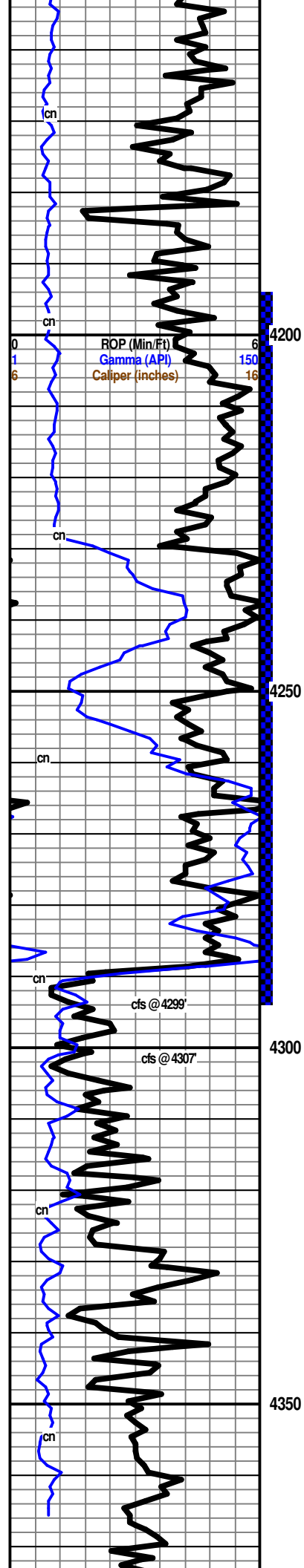
HUSHPUCKNEY 3901' (-1918)

Shale: black carbonaceous gray dark gray, dense blocky waxy, pyritic.

Limestone: white cream tan, micro to finexln, fossiliferous hash, scattered poor interxln porosity, chalky, no shows noted.







Chert: white or white cream, dense, fresh sharp, decrease in dolomite and iron pyrites, decrease in shows as above, influx of shales: gray green purple, waxy soft.

Limestone: cream tan, micro to finexln, dense chalky matrix lithographic, poor visible porosity, no shows noted, sharp decrease in chert and dolomite as above.

Limestone: cream gray tan, lithographic, dense hard matrix, no visible porosity, abundant white chert: sharp fresh, no shows noted.

Shale: gray dark gray green maroon yellow, blocky to rounded, trace waxy, abundant cherts and limestones as above.

SIMPSON SHALE 4229' (-2246)

Shales as above, increase in dense blocky gray dark grey maroon shales, no shows noted.

Shales as above with: dolomite: cream tan, micro to finexln, barren, poor rhombic development, poor interxln porosity, sandstone: white gray pale green, fine to coarse grained, sub-rounded to rounded, poorly sorted, well cemented, scattered good inter-granular porosity, no shows or odor noted.

Shale: gray dark gray green red, block dense, waxy in part, scattered sandstones as above.

ARBUCKLE 4288' (-2305)

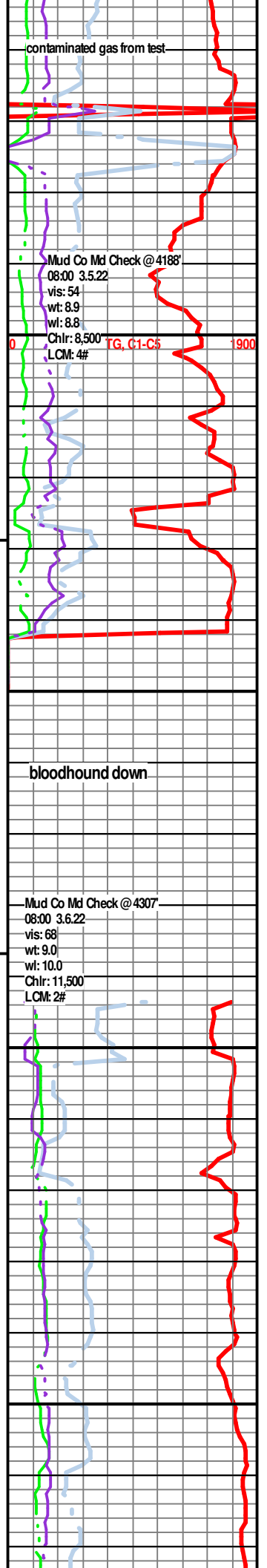
cfs 4299' Dolomite: white cream tan, micro to finexln, scattered poor to fair rhombic development, fair to good interxln trace vuggy porosity, light brown oil stain in porosity, fair show free oil under lamp, increase when broken, strong odor, even pale yellow fluorescence, milky white cut.

cfs 4307' Dolomite: white cream, micro to finexln, poor rhombic development, scattered poor to fair interxln sucrosic porosity, sharp decrease in show, a few samples light brown stain on edges, no free oil in tray, faint odor, pale yellow fluorescence.

Dolomite: cream tan light brown, micrln, fossiliferous, poor rhombic development, scattered poor interxln oolitic oomoldic porosity, chalky, strong sulphur odor, no shows noted.

Dolomite: white cream tan, micro to finexln, fossiliferous, poor rhombic development, scattered poor to fair interxln porosity, abundant chert: white bone white, oolitic, no shows or odor noted.

Dolomite: white cream tan, micro to finexln, trace fossils, poor rhombic development, scattered sucrosic texture, no shows or odor noted.



contaminated gas from test

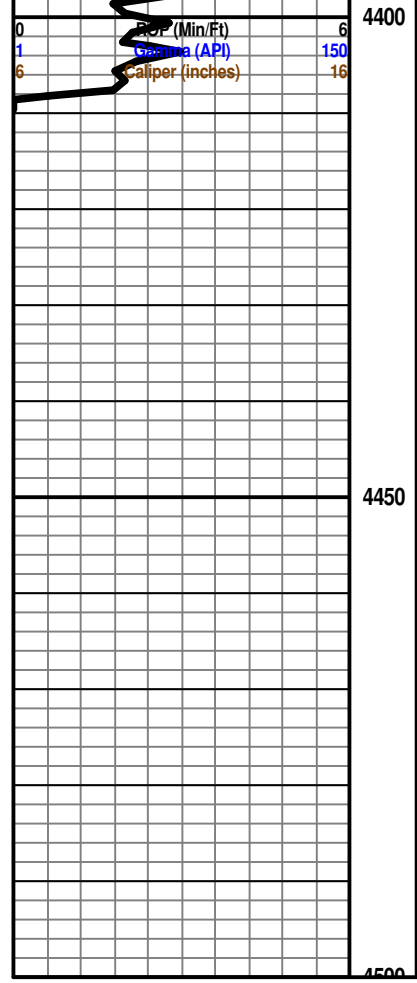
Mud Co Md Check @ 4188'
 08:00 3.5.22
 vis: 54
 wt: 8.9
 wl: 8.8
 Chr: 8,500 TG, C1-C5 1900
 LCM: 4#

bloodhound down

Mud Co Md Check @ 4307'
 08:00 3.6.22
 vis: 68
 wt: 9.0
 wl: 10.0
 Chr: 11,500
 LCM: 2#

Dolomite: gray cream tan, micro to finexn, good to fair rhombic development, sucrosic in part, scattered good interxn porosity, no shows, pale yellow mineral fluorescence, chalky.

cn



RTD 4402' (-2419)

