

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	Grand Mesa Operating Company
Well Name	YORK 1-4
Doc ID	1668549

All Electric Logs Run

CD/CN PE Log
DI Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	YORK 1-4
Doc ID	1668549

Tops

Name	Top	Datum
Stone Corral	2020	+610
Bs Stone Corral	2047	+583
Heebner	3709	-1079
Lansing	3749	-1119
Swope	4014	-1384
Hertha	4054	-1424
BKC	4083	-1453
Ft Scott	4246	-1616
BPL	4348	-1718
Mississippian	4362	-1732
LTD	4441	0



**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 102
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

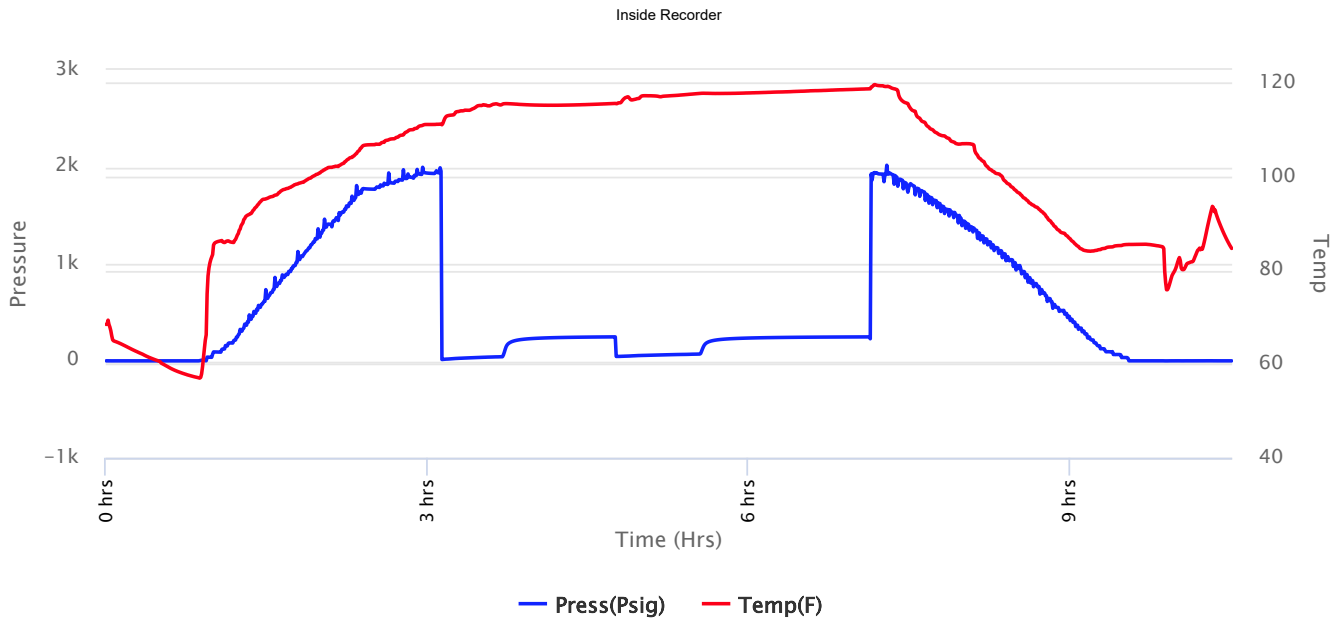
Operation:
Uploading recovery &
pressures

DATE
September
26
2022

DST #1 Formation: Swope Test Interval: 4000 - 4030' Total Depth: 4030'

Time On: 07:03 09/26 Time Off: 17:16 09/26
Time On Bottom: 10:06 09/26 Time Off Bottom: 13:51 09/26

Electronic Volume Estimate:	1st Open Minutes: 30 Current Reading: 2.25" at 30 min Max Reading: 2.25"	1st Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"	2nd Open Minutes: 45 Current Reading: 2" at 45 min Max Reading: 2"	2nd Close Minutes: 90 Current Reading: 0" at 90 min Max Reading: 0"
128'				





**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
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Drilling Contractor: Murfin Drilling
Company, Inc - Rig 102
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Uploading recovery &
pressures

DATE
September
26
2022

DST #1 **Formation: Swope** **Test Interval: 4000 - 4030'** **Total Depth: 4030'**
Time On: 07:03 09/26 Time Off: 17:16 09/26
Time On Bottom: 10:06 09/26 Time Off Bottom: 13:51 09/26

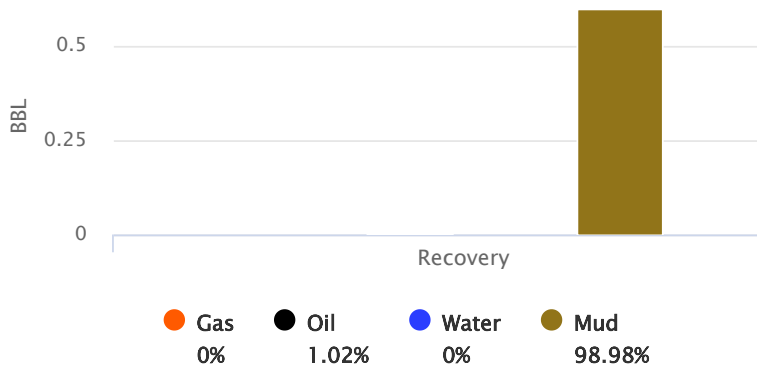
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
3	0.01476	SLOCM	0	2	0	98
120	0.5904	SLOCM	0	1	0	99

Total Recovered: 123 ft
Total Barrels Recovered: 0.60516

Reversed Out
NO

Initial Hydrostatic Pressure	1932	PSI
Initial Flow	14 to 43	PSI
Initial Closed in Pressure	247	PSI
Final Flow Pressure	45 to 70	PSI
Final Closed in Pressure	247	PSI
Final Hydrostatic Pressure	1932	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	0.1	%

Recovery at a glance



GIP cubic foot volume: 0



**Company: Grand Mesa
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Lease: York #1-4**

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County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 102
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Uploading recovery &
pressures

DATE
September
26
2022

DST #1 Formation: Swope Test Interval: 4000 - Total Depth: 4030'
4030'
Time On: 07:03 09/26 Time Off: 17:16 09/26
Time On Bottom: 10:06 09/26 Time Off Bottom: 13:51 09/26

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Built to 2 1/4 inch in 30 minutes
1st Close: NOBB
2nd Open: WSB. Built to 2 inches in 45 minutes
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: Grand Mesa
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Company, Inc - Rig 102
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Uploading recovery &
pressures

DATE
September
26
2022

DST #1 Formation: Swope Test Interval: 4000 - Total Depth: 4030'
4030'
Time On: 07:03 09/26 Time Off: 17:16 09/26
Time On Bottom: 10:06 09/26 Time Off Bottom: 13:51 09/26

Mud Properties

Mud Type: Chem **Weight:** 8.8 **Viscosity:** 64 **Filtrate:** 7.2 **Chlorides:** 2000 ppm



**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Well Complete

DATE
September
27
2022

DST #2 **Formation: Hertha** **Test Interval: 4030 - 4072'** **Total Depth: 4072'**
Time On: 05:45 09/27 Time Off: 14:11 09/27
Time On Bottom: 08:33 09/27 Time Off Bottom: 10:33 09/27

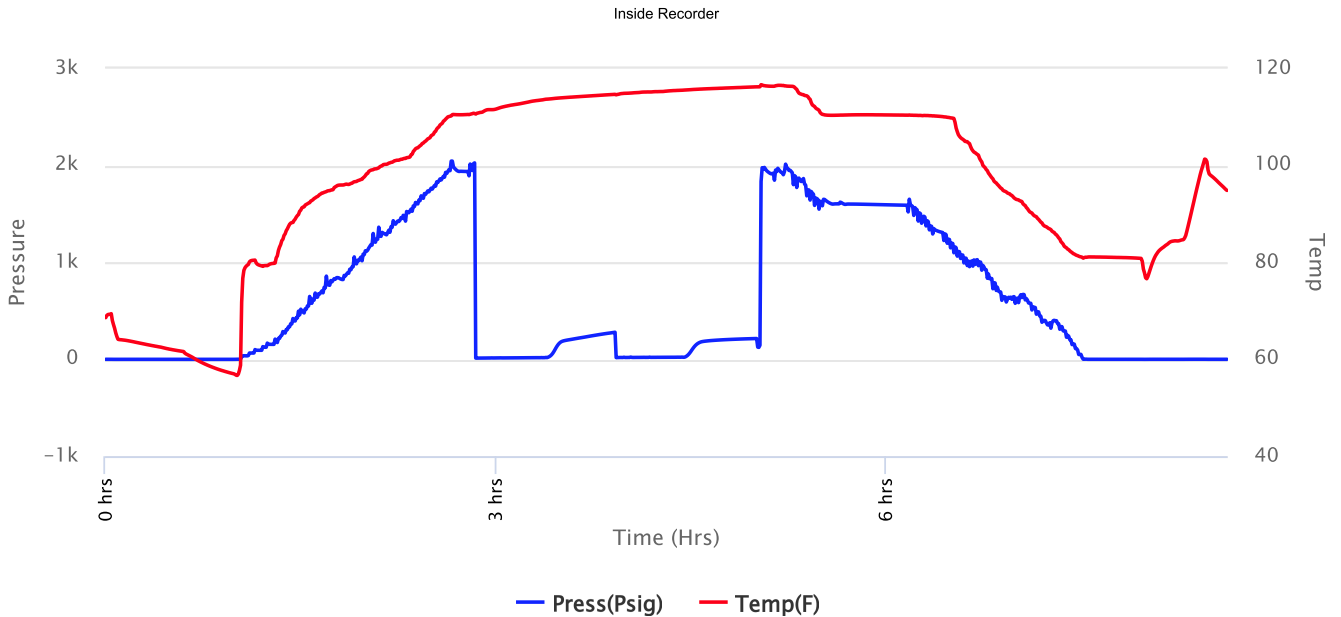
Electronic Volume
Estimate:
8'

1st Open
Minutes: 30
Current Reading:
.25" at 30 min
Max Reading: .25"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"





**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Well Complete

DATE
September
27
2022

DST #2 **Formation: Hertha** **Test Interval: 4030 - 4072'** **Total Depth: 4072'**
Time On: 05:45 09/27 Time Off: 14:11 09/27
Time On Bottom: 08:33 09/27 Time Off Bottom: 10:33 09/27

Recovered

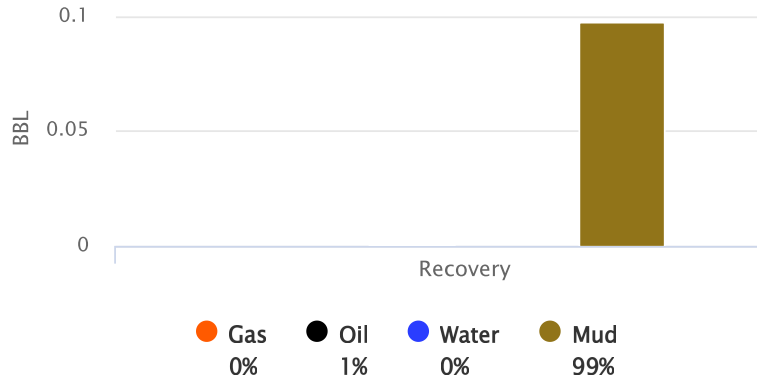
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
20	0.0984	SLOCM	0	1	0	99

Total Recovered: 20 ft
Total Barrels Recovered: 0.0984

Reversed Out
NO

Initial Hydrostatic Pressure	1938	PSI
Initial Flow	12 to 17	PSI
Initial Closed in Pressure	279	PSI
Final Flow Pressure	17 to 23	PSI
Final Closed in Pressure	215	PSI
Final Hydrostatic Pressure	1936	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	23.2	%

Recovery at a glance



GIP cubic foot volume: 0



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SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Well Complete

DATE
September
27
2022

DST #2	Formation: Hertha	Test Interval: 4030 - 4072'	Total Depth: 4072'
	Time On: 05:45 09/27	Time Off: 14:11 09/27	
	Time On Bottom: 08:33 09/27	Time Off Bottom: 10:33 09/27	

BUCKET MEASUREMENT:

1st Open: Weak, surface blow building to 1/4 in. in 30 mins.
1st Close: No blow back.
2nd Open: No blow.
2nd Close: No blow back.

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Well Complete

DATE
September
27
2022

DST #2 Formation: Hertha Test Interval: 4030 - Total Depth: 4072'
4072'
Time On: 05:45 09/27 Time Off: 14:11 09/27
Time On Bottom: 08:33 09/27 Time Off Bottom: 10:33 09/27

Down Hole Makeup

Heads Up: 25.27 FT	Packer 1: 4025 FT
Drill Pipe: 3842.3 FT <i>ID-3 1/2</i>	Packer 2: 4030 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4014.42 FT
Collars: 180.40 FT <i>ID-2 1/4</i>	Bottom Recorder: 4032 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: 42	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 41 FT <i>4 1/2-FH</i>	



**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Well Complete

DATE
September
27
2022

DST #2 Formation: Hertha Test Interval: 4030 - Total Depth: 4072'
4072'
Time On: 05:45 09/27 Time Off: 14:11 09/27
Time On Bottom: 08:33 09/27 Time Off Bottom: 10:33 09/27

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 50 **Filtrate:** 7.2 **Chlorides:** 1,500 ppm



**Company: Grand Mesa
Operating Company
Lease: York #1-4**

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

Operation:
Well Complete

DATE
September
27
2022

DST #2 Formation: Hertha Test Interval: 4030 - Total Depth: 4072'
4072'
Time On: 05:45 09/27 Time Off: 14:11 09/27
Time On Bottom: 08:33 09/27 Time Off Bottom: 10:33 09/27

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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GRAND MESA

OPERATING COMPANY

(316)-265-3000
FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

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

Well Name: York #1-4
API: 15-101-22673
Location: NW SW SW SE Sec.4 Twp 16S-R29W
License Number: 9855
Spud Date: 9/21/2022
Surface Coordinates: Lat: 38.686926436
Lng: -100.531268236
Bottom Hole (Same)
Coordinates:
Ground Elevation (ft): 2619 K.B. Elevation (ft): 2630
Logged Interval (ft): 3650 To: 4441 Total Depth (ft): 4441
Formation: Mississippian
Type of Drilling Fluid: Water Based Chemical Mud

Region: Kansas
Drilling Completed: 9/28/2022

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

OPERATOR

Company: Grand Mesa Operating Company
Address: 1700 North Waterfront Parkway
Building #600
Wichita, Kansas 67206

GEOLOGIST

Name: Gareth Dinkel
Company: Grand Mesa Operating Company
Address: 1700 North Waterfront Parkway
Building #600
Wichita, Kansas 67206

COMMENTS

Structurally, the York #1-4 ran favorably in the Swope and Hertha formations to established production to the South, but lacked reservoir development in the Swope, Middle Creek and Hertha Formations. It was decided to plug and abandon the York #1-4 9/28/2022

Respectfully Submitted,
Gareth Dinkel



Company: Grand Mesa
Operating Company
Lease: York #1-4

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 102
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILD CAT

Operation:

Unloading recovery &

Spreading Recovery & pressures

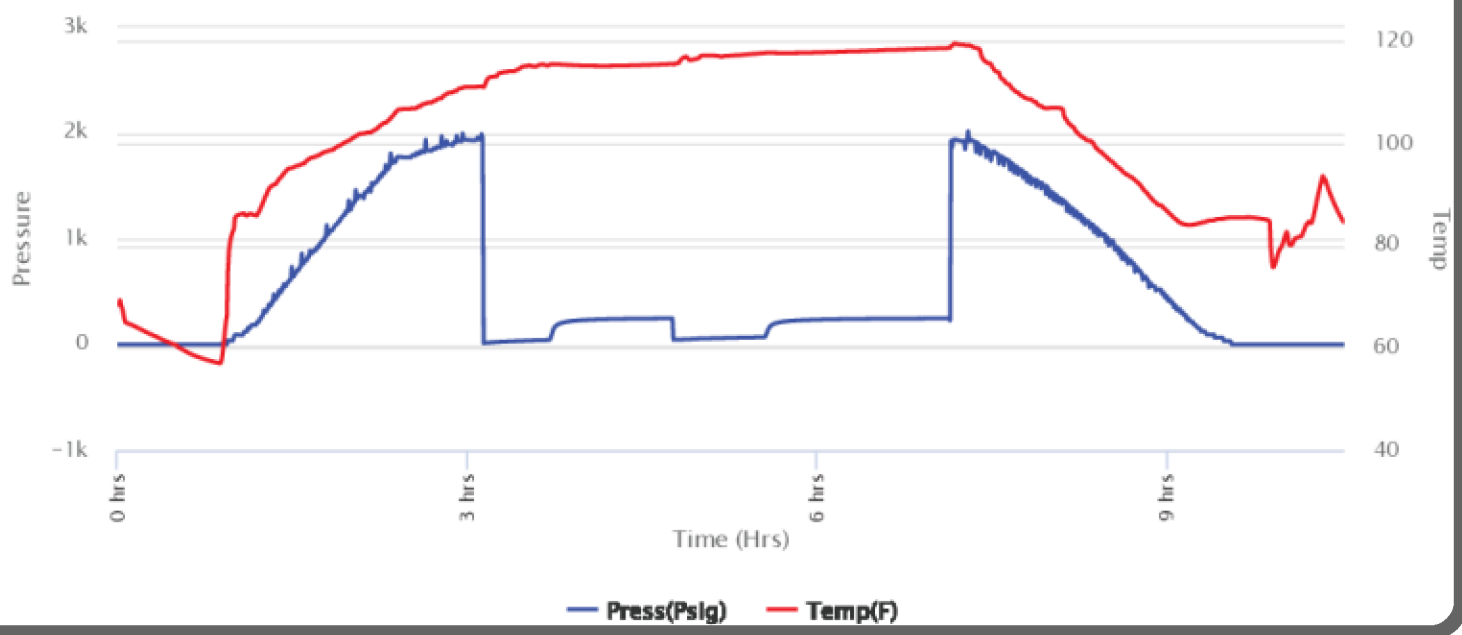
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

DATE
September
26
2022

DST #1 **Formation: Swope** **Test Interval: 4000 - 4030'** **Total Depth: 4030'**
Time On: 07:03 09/26 Time Off: 17:16 09/26
Time On Bottom: 10:06 09/26 Time Off Bottom: 13:51 09/26

Electronic Volume Estimate: 128'	<u>1st Open</u> Minutes: 30	<u>1st Close</u> Minutes: 60	<u>2nd Open</u> Minutes: 45	<u>2nd Close</u> Minutes: 90
	Current Reading: 2.25" at 30 min	Current Reading: 0" at 60 min	Current Reading: 2" at 45 min	Current Reading: 0" at 90 min
	Max Reading: 2.25"	Max Reading: 0"	Max Reading: 2"	Max Reading: 0"

Inside Recorder



Company: Grand Mesa Operating Company
Lease: York #1-4

SEC: 4 TWN: 16S RNG: 29W
County: LANE
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc.- Rig 22
Elevation: 2619 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 568
API #: 15-101-22673

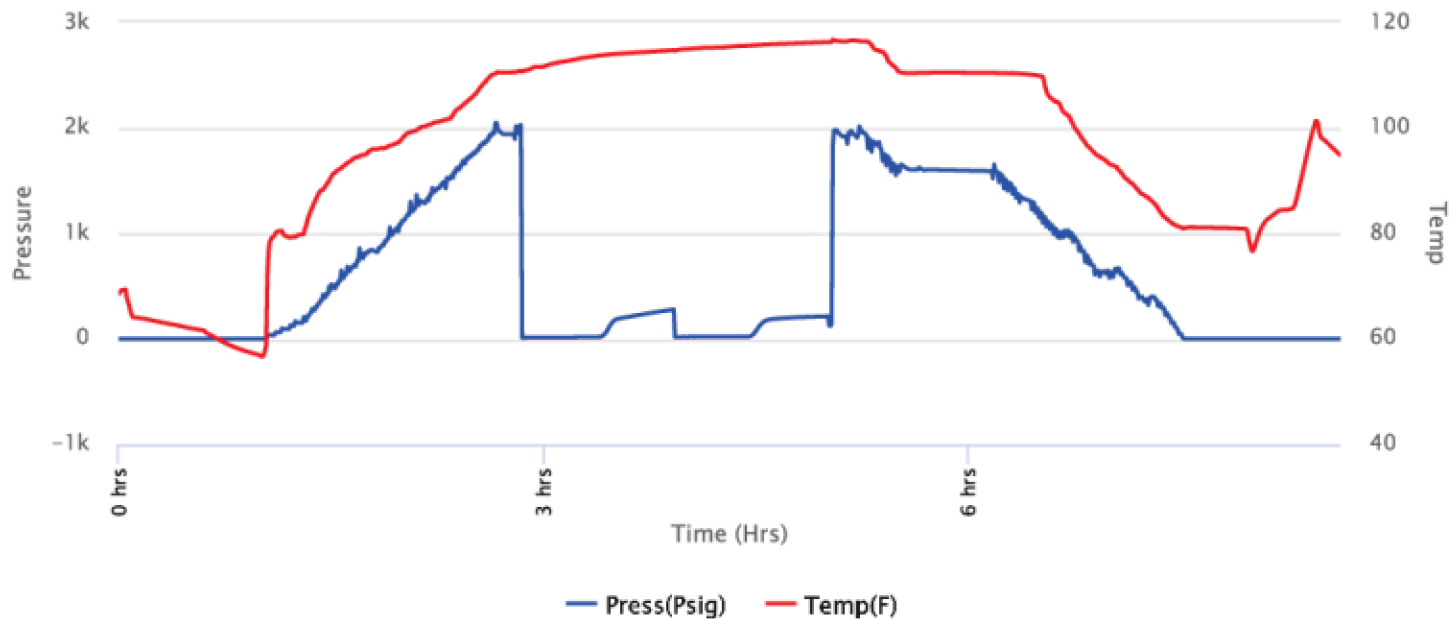
Operation:
Well Complete

DATE
September
27
2022

DST #2 **Formation: Hertha** **Test Interval: 4030 - 4072'** **Total Depth: 4072'**
Time On: 05:45 09/27 Time Off: 14:11 09/27
Time On Bottom: 08:33 09/27 Time Off Bottom: 10:33 09/27

Electronic Volume Estimate: 8'	<u>1st Open</u> Minutes: 30	<u>1st Close</u> Minutes: 30	<u>2nd Open</u> Minutes: 30	<u>2nd Close</u> Minutes: 30
	Current Reading: .25" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min
	Max Reading: .25"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

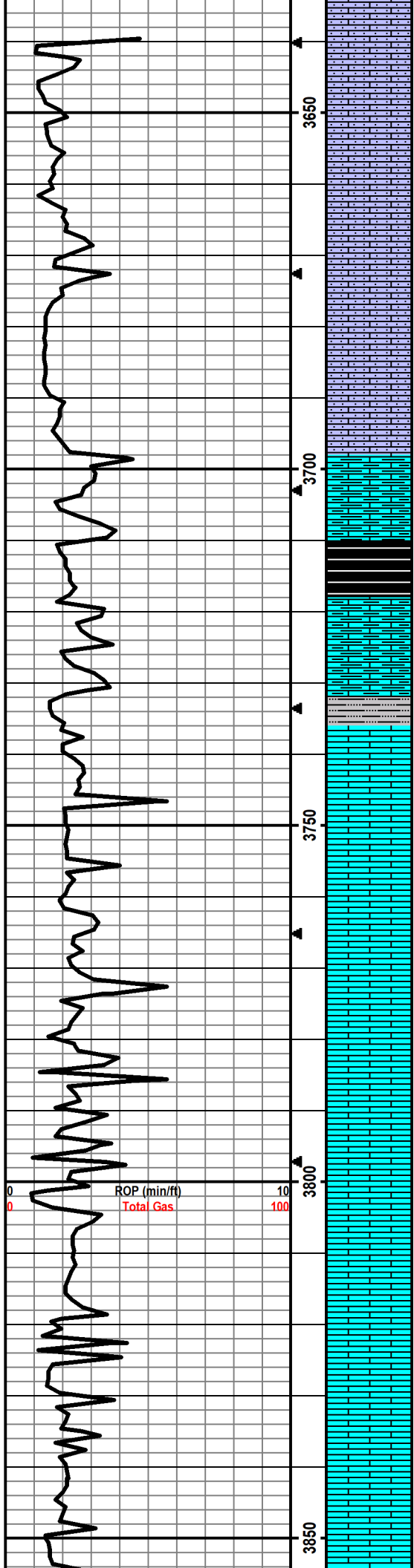
Inside Recorder



ROCK TYPES

- | | | | | | | | |
|--|-------|--|---------|--|----------|--|------------|
| | Anhy | | Salt | | Dol | | SltysH |
| | Cht | | Shale | | Dtd | | Sdy dolo |
| | Coal | | Shcol | | Gry sh | | Silty dolo |
| | Congl | | Shgy | | Sandylms | | Shy dolo |
| | Dol | | Sltst | | Shale | | Shaly ls |
| | Gyp | | Ss | | Sltstn | | |
| | Lmst | | Carb sh | | Shlysts | | |

Curve Track 1		MD	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
ROP (min/ft)	Total Gas						
0	0	35					
10	100						
0	0	3600				Begin 1ft drill time at 3,600 ft. 9/25/2022 12:00 A.M.	Bit Trip 3,600 ft. PDC Out Button Bit In
10	100						
0	0					Begin 10ft samples at 3,650 ft.	
10	100					Ls-orm-gry, micro-xln, dense, foss (frags-ool), sl. sparry w/f. inter-foss por. NS, No odor 3650	



Ls-crm-tan, micro-xln, dense, sl. sandy, foss (frags-pelletal), spar, w/ f. inter foss por. NS, No odor. 3660

Ls-crm-tan, micro-xln, dense, sl. sandy, foss (frags-pelletal) few mottled, earthy, arg. no vis por., NS, no odor. 3670

Ls-crm-tan, micro-xln, dense, sl. sandy, foss (frags, fuss, pelletal), earthy, arg. no vis por., NS no odor. 3680

Ls-tan, micro-xln, dense, sl. sandy, earthy, abun foss frag, earthy, sl. arg, w/ fine inter foss por., NS, No odor. 3690

Ls-crm mott brn, micro-xln, sl. dense, foss frags, earthy arg, no vis por, NS, No odor 3700

Predom Ls AA, few pcs, Sh-brn-blk, sl carb. 3710

Heebner Sh. Mbr. 3,710 ft. (-1,080)

Flood Sh-brn-blk, sl. carb w/ LS, brn mott crm, micro-xln, sl. dense, foss (crind,fuss,) arg, w/ blk frags, no vis por, NS no odor. 3720

Flood Siltstn- tan, s dense, musy, no vis por, NS no odor 3730

Ls tan mott crm, micro-xln, sl. dense, arg, w/ abun black lith staining, no vis por. no odor NS 3740

Ls crm, mico-xln, dense, few pcs scat cher wht fresh sharp, no vis por. no odor NS 3750

Ls- crm, mico-xln, dense, abun blk lith stain, no vis por., no odor, NS 3760

Ls- crm, micro-xln, dense, No vis por. NS, No odor 3760 15min

AA, NS, No odor 3760 30min

CFS 3760
15min/30min

Ls- bone-crm, micro-xln, dense, sl spar. w/ v. f. inter-xln por., NS, NO 3770

Ls-crm, micro-xln, dense, few foss (ool) no vis por., NS, No odor 3780

Flood LS-brn mott brn, micro-xln v.dense, spar, no vis por., NS, no odor 3790

Ls-crm, micro-xln, dense, foss (ool), sparry, w/ sl. ininter-xln por., NS, no odor 3800

Ls-crm-tan, micro-xln,dense, foss (ool) sparry, no vis por., NS, No odor 3800 30min

CFS 3800
15min/45min

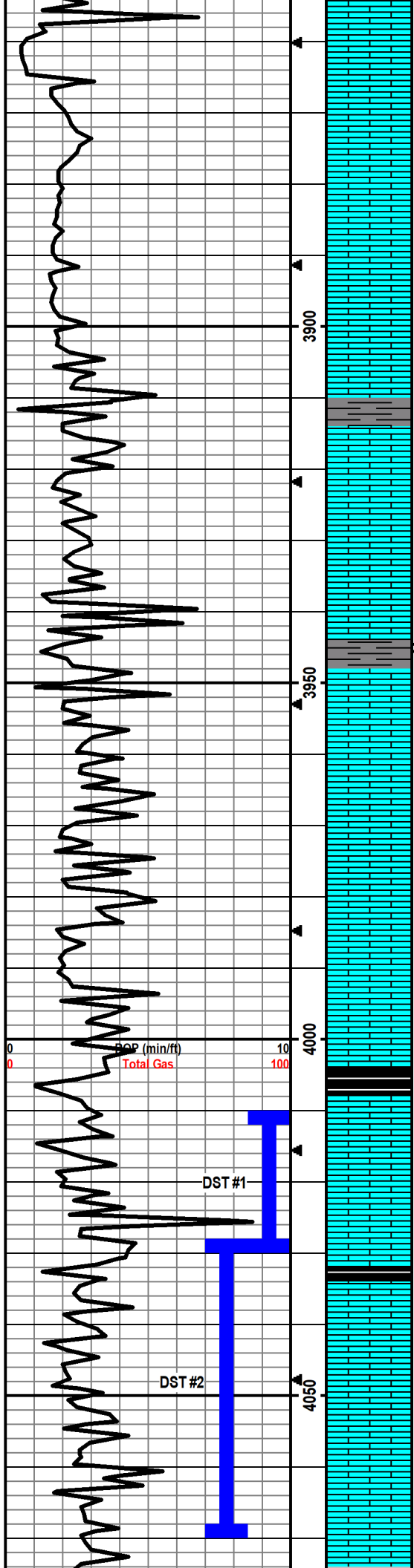
Ls-crm, micro-xln, dense w/ few SH-gry-blk, dense waxy 3830

Ls- crm mott wht, micro-xln dense, v. sparry, few w/ p. inter xln por, NS, No odor 3840

Flood Ls- brn, micro-xln, dense, v. sparry, no vis por., NS, no odor. 3850

Ls- crm, micor-xln few foss (ool) sparry, no vis por., NS, No odor 3860

LS- AA 3870



Flood Ls -bm, micro-xln, dense, Foss (ool) w/ f. ool-moldic porosity, NS, NO 3880

Ls- bm, micro-xln, dense, foss (ool) w/ p. ool-moldic porosity, por re/xln w spar, chalky NS, no odor. 3890

Ls-crm-gry, micro-xln, dense, spar. sl. chalky, no vis por., NS, no odor. 3900

Ls- AA 3910

LS- AA 3920

Muncie Creek Sh. Mbr. 3,910 (-1,280)

Flood LS-bm mott wht, micro-xln, v. dense, sparry, few w/ foss frags, Sh-Gry-blk, dense waxy no vis por, NS no odor 3930

LS - AA 3940

LS- crm, micro-xln, sl. dense, few frac w/ re-xln spar. sl. chalky, no vis por., NS, no odor 3945

Ls- crm-bm, micro-xln, v. dense, few pcs foss (pelletal-ool), hvy re-xln spar. no vis por., few lithic blk stain, NS, no odor. 3945 45in

CFS 3945
15/45min

Ls crm, micro-xln , sl. dense, sl chalky, no vis por., NS, no odor. w/ Sh- blk, dense waxy 3960

Ls- crm, micro-xln, sl. dense, foss frags, sl chalky, no vis por., NS, no odor. 3970

LS- AA, v. few pcs with tarry dead stain, NSFO, no odor 3970 45min

CFS 3970
15/45min

Ls-crm, micro-xln, sl. dense, foss frags, sl. chalky, w/ Sh-gry-blk dense waxy no vis por., NS, no odor 3990

Ls-crm, micro-xln, sl dense, foss frags, f. re-xln spar w/ f. inter-xln por, NS, No 4000

Ls- crm-tan. micro-xln, dense, foss (ool) v. few w/ sl. inter foss por., 1 pcs sli dead stain, NSFO, no dor 4003 45min

CFS 4003
15/45min

Stark Sh. Mbr. 4,005ft. (-1,375)

Flood Sh-blk dense waxy 4020

Flood Ls-crm-gry, micro-xln, soft, sl. chalky, sl. foss (pelletal) w g. iner-xln por. w/ f. SFO, g. show med-brn oil on break, strong cup odor, v.strong on crush. weak lazy strm cut 4030

AA-less chalk w/ few Ls- Crm, micro-xln dense, strong odor, Show AA 4030 15min

Ls-crm-tan, micro-xln, dense, foss (pelletal-ool) w/ hvy re-xln spar, no vis por. few show AA f.odor.4030 45min

CFS 4030
15/45min

Hushpuckney Sh. Mbr. 4,032ft. (-1,402)

Ls-bm, micro-xln v. dense, spary, no vis por. NS sl cup odor. 4050

Ls- crm-tan micro-xln, v. dense, sparry, v. few w/ p. inter-xln por. NSFO, v. few w/ tarry dead stain, no odor

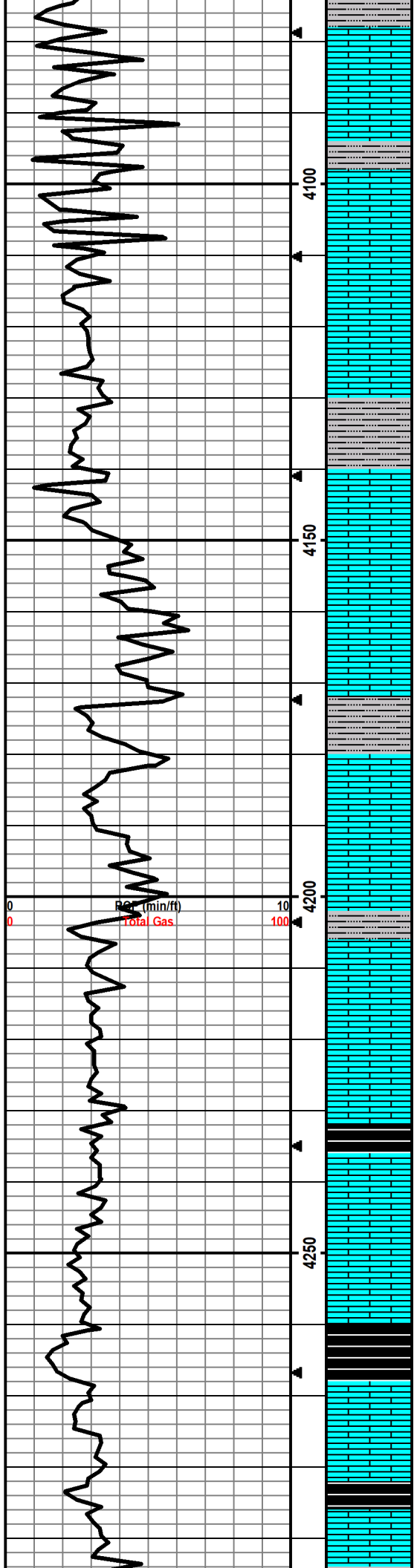
Ls-AA, few sl. foss (frags-ool) w/ p inter-xln por NSFO v. few tarry dead stain AA

Ls crm, miro-xln, dense, foss frags, few with tarry dead stain, NSFO, sli odor. 15min

Ls-crm-gry, micro-xln dense, no vis por., NS, No odor. 45min

CFS 4072
15/45min

Base of Kansas City 4,073ft. (-1,443)



LS-cm-gry, micro-xln, dense w/Sh-gry-blk dense waxy, 4090

Ls-cm mott gry, micro-xln, arg, w/ Ls-tan-micro-xln, v.dense, few pcs sl.foss w/ sl. p. inter-xln por. NS no odor 4100

Flood siltstn-red,gry-gren, soft, mushy, w/Ls-tan, micro-xln dense, no vis por., NS no odor. 4110

Ls-tan-micro-xln, v.dense, sparry, no vis por., NS no odor. 4120

Ls-cm-tan, micro-xln, dense, few foss (ool) w/ hvy re-xln spar. no vis por., NS, no odor 4130

Ls-cm-bm, micro-xln, dense, sparry, few with chert inclusions w/ p inter-xln por. NS, No odor 4140

Siltstn-Bm soft mushy w/ Ls- bm, micro-xln, dense, sparry, few soft sl chalky, no vis por., NS, no odor, 4150

Ls-cm, micro-xln, dense, foss (ool-pelletal) re-xln spar, few mottled maroon, arg. no vis por. NS, no odor 4160

Ls-cm, micor-xln, dense, w/ scat loose Chert-amber, fresh sharp, no vis por., NS, no odor. 4170

Flood Siltstn-bm, softy mushy w/ Ls cm-bm, micro-xln dense no vis por. NS no odor- 4180

Ls- cm-gry, micro-xln dense, no vis por., NS no odor 4190

Ls-cm-gry, micro-xln, dense, sl. sparry, no vis por., NS, no odor 4200

Ls-tan, micro-xln, dense, no vis por., NS, no odor 4210

LS-cm-gry, micro-xln, dense, no vis por., NS, no odor 4220

Ls - AA 4230

Flood LS- bm, micro-xln, v. dense sl. foss (crin), sl sparry, no vis por, NS, no odor 4240

Flood Sh- blk sl. carb w/ Ls bm-blk, v. dense, foss(ool) no vis por., NS, No odor 4250

Ls-tan mott cm, micro-xln, sl. dense, sl chalkt, scat chert-amber, wht, gry, fresh sharp, no vis por., NS, no odor 4260

Ls- cm-tan, micro-xln, sl. dense, sl. sparry , no vis por., NS, No odor 4270

Excello Sh. Mbr. 4,261ft. (-1,631)

Ls AA w/ Sh-blk dense sl carb no vis por., NS, no odor 4280

Flood Sh-Blkd dense, sl. carb, no vis por., NS, no odor 4290

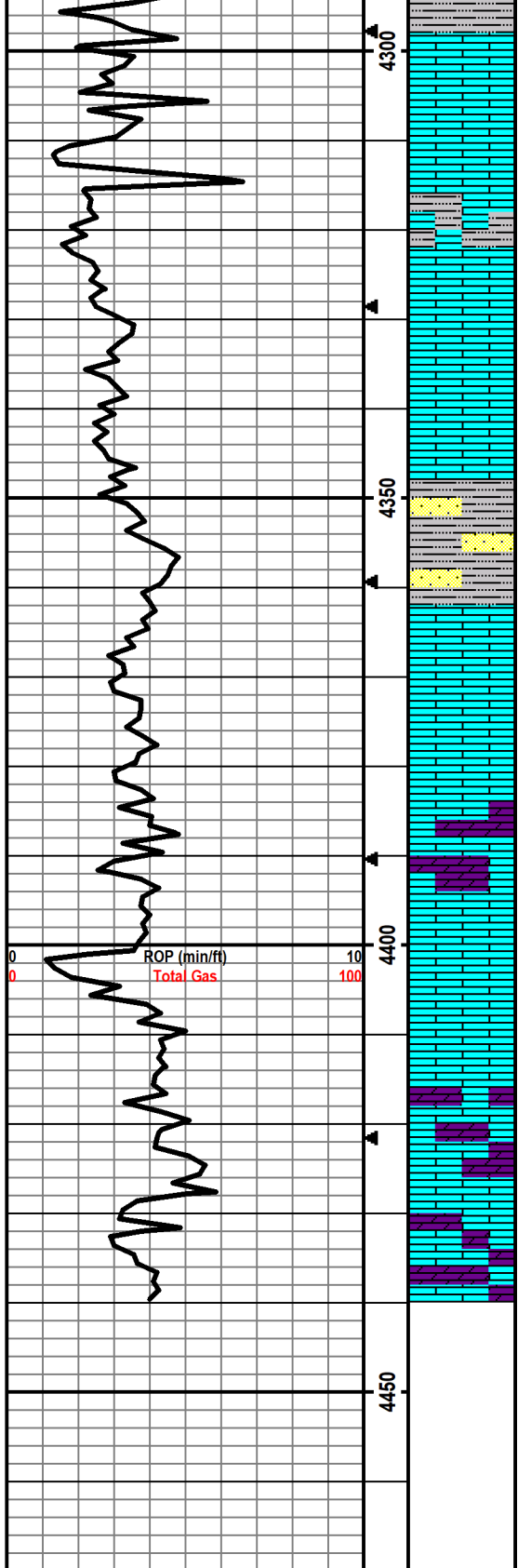
LS-cm-gry, micro-xln, dense, sl. chalky, sl arg, few foss (ool) no vis por., NS, no odor 4300

DST #1
Swope
4,000'-4,030'
30-60-45-90
Rec:
3' SLOCM
(2%O 98%M)
120' SLOCM
(1%O 99%M)

IF: 14-43
ISIP: 247
FF: 45-70
FSIP: 247
HP 1932-1932

DST #2
Middle Creek /
Hertha
4,030'-4,072'
30-30-30-30
Rec:
20' SLOCM
(1%O 99%M)

IF: 12-17
ISIP: 279
FF: 17-23
FSIP: 215
HP 1938-1936



Ls- cm-bm, micro-xln, dense, sl. chalky, few sl arg, no vis por. NS, no odor 4310

Ls-cm-bm, micro-xln, dense, foss (frag-ool), sparry sl chalky, sl arg, no vis por, Few w/ tarry dead stain NSFO, no odor 4320

LS- AA, NS, NO 4330

Ls-tan, micro-xln, dense foss (frags), no vis por. NS, no odor 4340

Ls-AA NS, no odor 4350

Flood Sh-gry-gm, bm, sofy mushy, few clust SS-trans, w. sorted, sub-mded, w.cmt'd, v.dense, no vis por., NS, no odor 4360

Mississippian (St. Louis) 4,362ft. (-1732)

Ls- bm, micro-xln, v.dense, sparry, few foss (ool), w/ hvy re-xln spar. few clust SS- AA, no vis por., NS, no odor 4370

Ls- tan-bm, micro-xln, v. dense, w/ scat chert- tan-amber, fresh sharp, no vis por, NS, no odor 4380

LS- AA 4390

Ls- cm-tan mott marron, mmicro-xln dense, few pcs dolo, cm-f-xln, w/ f. in-xln por. NS, no odor 4400

Ls- cm-tan mott marron, micro-xln, mostyt dense, sparry, few soft, sl. chalky, foss (frags-ool), no vis por, NS, no odor 4410

Ls-cm-tan mott maroon, foss (ool) w/ flood Sh-gry-blk green marron, dense waxy, (sluff) NS no odor 4430

Mostly sluffing Sh? w/ Ls-cm-tan, micro-xln dense, few scat pcs Dolo-wht, soft, m-xln, sl chalky, no vis por. NS, no odor 4440

Mostly sluffing sh? Ls- cm-tan, micro-xln, Ls-cm, micro-xln, sl. dense, few foss (ool), w/ dolo wht, soft 4440 20min

AA terrible sluff 4440 45min

RTD 4,440ft. 4:19 p.m. 9/28/2022
 LTD 4,441ft. 11:00 p.m. 9/28/2022

CFS 4440
 20/45min
 Short-Trip 10stnds, CTCH
 1hr, TOH f/Logs



CEMENT TREATMENT REPORT

Customer: Grand Mesa	Well: York #1-4	Ticket: WP 3445
City, State: Gove KS	County: Lane KS	Date: 9/29/2022
Field Rep: Jesus	S-T-R: 4-16S-29W	Service: PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Plug	Blend:	
Hole Depth:	4440 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	2040 ft	Depth:	ft
Tool / Packer:		Annular Volume:	82.8 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	75.8 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	300 sx	Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	STAGE	TOTAL BBLs	REMARKS
12:28 PM			-		-	Arrived on location
12:38 PM					-	Safety meeting
12:48 PM					-	Rigged up
1:02 PM	3.2	150.0	5.0		5.0	Water ahead
1:04 PM	4.5	250.0	12.6		17.6	Mixed 50 sacks H-Plug cement 13.8 ppg @ 2040'
1:08 PM	3.2	50.0	5.0		22.6	Begin displacement
1:12 PM					22.6	Pumped mud with rig pump for 1:30 minutes
2:55 PM	3.0	150.0	5.0		27.6	Water ahead
2:57 PM	6.0	275.0	20.2		47.8	Mixed 80 sacks H-Plug cement 13.8 ppg @ 1330'
3:03 PM	3.6	100.0	10.5		58.3	Begin displacement
3:43 PM	3.5	100.0	5.0			Water ahead
3:45 PM	6.0	350.0	12.6			Mixed 50 sacks H-Plug cement 13.8 ppg @ 650'
3:49 PM	3.4	200.0	4.5			Begin displacement
4:08 PM	2.7	150.0	5.0			Water ahead
4:10 PM	5.0	250.0	12.6			Mixed 50 sacks H-Plug cement 13.8 ppg @ 260'
4:13 PM	2.0	50.0	0.5			Begin displacment
4:44 PM	2.5	100.0	5.0			Mixed 20 sacks H-Plug cement with wooden plug for top 60'
4:49 PM	2.7	100.0	5.0			Mixed 20 sacks H-Plug cement for mouse hole plug
4:54 PM	2.8	100.0	7.5			Mixed 30 sacks H-Plug cement for rat hole plug
4:56 PM						Plug down
4:58 PM						Washed up and rigged down
5:20 PM						Left location

CREW		UNIT	SUMMARY		
Cementor:	John	73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jose V	208	3.6 bpm	158 psi	116 bbls
Bulk #1:	Florencio	194-235			
Bulk #2:					