





Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	FAGEN 1-30
Doc ID	1418548

All Electric Logs Run

CDL/CNL
DIL
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	FAGEN 1-30
Doc ID	1418548

#### Tops

Name	Top	Datum
Anhydrite	1550	+ 867
Heebner	3975	- 1558
Lansing	4042	- 1625
Stark	4359	- 1942
Pawnee	4561	- 2144
Cherokee	4608	- 2191
Mississippi	4721	- 2304
Warsaw	4774	- 2357

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	FAGEN 1-30
Doc ID	1418548

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	218	Common	150	3% cc, 2% gel
Production	7.875	5.5	15.5	4874	50/50 Poz	170	2% gel



Services, Inc.

CHARGE TO:

Mull Drilling Co.

ADDRESS

CITY, STATE, ZIP CODE

TICKET 031511

PAGE 1 OF 1

SERVICE LOCATIONS

1. Ness City KS

2.

3.

4.

WELL/PROJECT NO.

#1-30

LEASE

Fagen

COUNTY/PARISH

Hockley

STATE

KS

CITY

Delmore

DATE

5-8-18

OWNER

Seime

WELL TYPE

Oil

CONTRACTOR

W & W Drilling

RIG NAME/NO.

#4

SHIPPED VIA

CT

DELIVERED TO

Location

WELL PERMIT NO.

WELL LOCATION

Delmore - 11s, 1/2 E, 2 S

PRICE REFERENCE

SECONDARY REFERENCE/ PART NUMBER

ACCOUNTING

LOC

ACCT

DF

DESCRIPTION

QTY.

U/M

QTY.

U/M

UNIT PRICE

AMOUNT

575

1

MILEAGE

Trk # 112

40 mi

5.00

200.00

576.5

1

Pump Charge - Shallow Surface

1 job

875.00

875.00

325

1

Standard Cement

150 sks

13.00

1950.00

279

1

Benharite Gel

2 1/2

30.00

90.00

278

1

Calcium Chloride

3 1/2

7.00

24.50

240

1

D-Air

2 gal

42.00

84.00

581

1

Service Charge Cement

583

1

Drayage

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED

5-9-18

TIME SIGNED

0345

☒ A.M.

☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.

P.O. BOX 466

NESS CITY, KS 67560

785-798-2300

DATE SIGNED

5-9-18

TIME SIGNED

0345

☒ A.M.

☐ P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR

David Husha

APPROVAL

Thank You!



# SWIFT Services, Inc.

DATE \_\_\_\_\_

5-8-18

PAGE NO.

1

CUSTOMER

Mull Drilling Co.

WELL NO.

# 1-30

LEASE

# Fragen

JOB TYPE
----------

8 5/8" Surface

TICKET NO.

TICKET NO. **31571**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2300							on location 8 5/8" 23#
								RTD - 218' TP-222'
5-9-18	0200							Start 8 5/8" 23# casing in well
	0300							Break Circulation
	0310	4 1/2	5		✓	100		Pump 5 bbl water spacer
	0315	4 1/2	36		✓	100		mix 150 sks STD 2% Gel 3% cc @ 14.7 ppv
	0325	4 1/2	0		✓	100		Start Displacement
		4 1/2	6		✓	200		circulate Cement to surface - * 30 sks *
	0330	4 1/2	13 1/2		✓	200		Kick out Pump Shut in
								wash up trucks
	0400							Job Complete
								Thank You Dave Preston Kirby



Services, Inc.

CHARGE TO:

Mull Drilling

ADDRESS

CITY, STATE, ZIP CODE

TICKET 031520

PAGE 1 OF 2

SERVICE LOCATIONS  
1. Ness City, KS

WELL/PROJECT NO.  
#1-30

LEASE

COUNTY/PARISH  
Fergus

STATE  
KS

CITY  
Delaware

DATE  
5-17-18

OWNER  
Same

2. TICKET TYPE  
☒ SERVICE  
☐ SALES

CONTRACTOR  
W & W Drilling

RIG NAME/NO.  
#4

SHIPPED  
VIA

DELIVERED TO  
Location

WELL LOCATION  
Delaware - 11 5/8" x 2 1/2" hole

3. WELL TYPE  
Oil

WELL CATEGORY  
Development

JOB PURPOSE  
Cement 5 1/2" Longshoring

WELL PERMIT NO.

WELL LOCATION

WELL PERMIT NO.

WELL LOCATION

PRICE  
REFERENCE

SECONDARY REFERENCE/  
PART NUMBER

ACCOUNTING  
LOC ACCT DF

DESCRIPTION

QTY. U/M

QTY. U/M

UNIT  
PRICE

AMOUNT

575

1

MILEAGE

Tk # 112

40 mi

5.00

200.00

578

1

Pump Charge - Longshoring

1 job

1300.00

1300.00

409

1

Turbolizer

7 ea

85.00

595.00

403

1

Cement Basket

1 ea

275.00

275.00

400

1

Guide Shoe

1 ea

180.00

180.00

415

1

Insert Float Collar w/ fill up

1 ea

350.00

350.00

404

1

Port Collar

1 ea

2500.00

2500.00

410

1

Top Plug

1 ea

100.00

100.00

194

1

Plug Container Rental

1 job

200.00

200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

REMIT PAYMENT TO:  
SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?

CUSTOMER DID NOT WISH TO RESPOND

TOTAL

DATE SIGNED  
5-17-18

TIME SIGNED  
1100

A.M.  
☒ P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR  
David Muehl

APPROVAL  
Jana Hoo

Thank You!





TICKET  
No. # 31520

PO Box 466

Ness City, KS 67560

Off: 785-798-2300

CUSTOMER  
Mull Drilling

Well  
Foggy  
H 1-30

DATE S-17-18

PAGE 2 OF 2

[illegible]



## JOB LOG

SWIFT Services, Inc.

DATE 5-17-18

PAGE NO. 1

CUSTOMER  
Mull DrillingWELL NO.  
#1-30LEASE  
FagenJOB TYPE  
5 1/2" Longstring

TICKET NO. #31520

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0200							on location 5 1/2" 15.5"
								RTD- 4875' LTD- 4879'
								TP- 4874 SJ- #1 39.54
								P.L- #83 1566 out #122 #123 #124 #125 #126
								Turbos - #2 #3 #4 #5 #6 #8 #84
								Baskets - #83
	0545							Start 5 1/2" 15.5" casing in well
	0800							Drop Ball circulate
	0935	6 1/2	15		✓	400		Pump 15 bbl KCL Flush
		6 1/2	24		✓	350		Pump 1000 gal Flochcks 21
		6 1/2	5		✓	300		Pump 5 bbl KCL Flush
			7					Plug RH (30 sks)
	0950	4 1/2	39		✓	250		mix 170 sks 50/50 Pozmix @ 14.4 ppg
								wash out Pump + Lines
								Release Top Plug
	1010	6 1/2	Ø		✓	100		Start Displacement
		6 1/2	91		✓	250		Lift Pressure
		6 1/2	114		✓	700		max lift Pressure
	1030	6 1/2	115		✓	1500		Land Top Plug
								Release Pressure * Float Hold *
								wash up truck
	1100							Job Complete
								Thank You Dave Preston Kirby



CHARGE TO: Mull Drilling  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 031577

PAGE 1 OF 1

SERVICE LOCATIONS		WELL/PROJECT NO. <u>#1-30</u>		LEASE <u>Fagen</u>		COUNTY/PARISH <u>Hodgkinson</u>		STATE <u>KS</u>		CITY <u>Shawnee</u>		DATE <u>5-25-18</u>		OWNER <u>Seam</u>	
1. <u>Ness City KS</u>		TICKET TYPE <input checked="" type="checkbox"/> SERVICE		CONTRACTOR <u>Cheyenne Well Service</u>		RIG NAME/NO.		SHIPPED <u>via</u>		DELIVERED TO <u>Location</u>		ORDER NO.			
2.		SALES		WELL TYPE <u>Oil</u>		WELL CATEGORY <u>Development</u>		JOB PURPOSE <u>Cement 5 1/2" Port Collar</u>		WELL PERMIT NO.		WELL LOCATION <u>Shawnee - 11 1/2 mi. S. 1/2 Sec. 21</u>			
3.															
4.															
REFERRAL LOCATION		INVOICE INSTRUCTIONS													

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE			40	mi.	5.10	2040.00
576 D		1			Pump Charge - Port Collar			1	job	1300.00	1300.00
330		1			SMB Cement			150	lbs	16.35	2452.50
276		1			Flacke			1/4	lb	501.16	125.29
290		1			D-Air			2	gal	42.00	84.00
581		1			Service Charge Cement			175	lbs	1.75	306.25
583		1			Drayage			347	TM	00.85	294.95

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED 5-25-18 TIME SIGNED 1245 ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:  
SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY				PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE	10-2-2000	4747.70
WE UNDERSTOOD AND MET YOUR NEEDS?				3490	-474.77
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					4228.93
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					182.21
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	4455.14

SWIFT OPERATOR David Kuehn APPROVAL Thank You!



## JOB LOG

SWIFT Services, Inc.

DATE 5-25-18	PAGE NO. 1
TICKET NO. 31577	

CUSTOMER

Mull Drilling

WELL NO.

# 1-30

LEASE

Fagen

JOB TYPE

Part Collar

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							on location 27/8" x 5 1/2"
								P.C. - 1566
	1020	0	0		✓	1000		Pressure Test *Hold*
	1115							Open P.C. - Blow
	1120	2 1/2	4		✓	200		Injection Rate
	1125	4	83		✓	200		Mix 150 sks SMD 1/4" Flo @ 11.2 fpg Circulate Cement to surface - 20 sks
	1145	4	8 1/2		✓	400		Displace Cement
	1150	0	0		✓	1000		Close P.C. *Test Hold*
								Run 4 Jts
	1205	3 1/2	20		✓	300		Reverse Clean
								Wash up truck
								*150 sks SMD 1/4" Flo total* *20 sks To P.t.*
	1240							Job Complete
								Thank You Dave Preston Russ





**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May  
**14**  
2018

**DST #1**

**Formation:**  
**Congland/Miss**

**Test Interval: 4684 -  
4760'**

**Total Depth: 4760'**

Time On: 18:16 05/14

Time Off: 04:02 05/15

Time On Bottom: 20:35 05/14

Time Off Bottom: 00:10 05/15

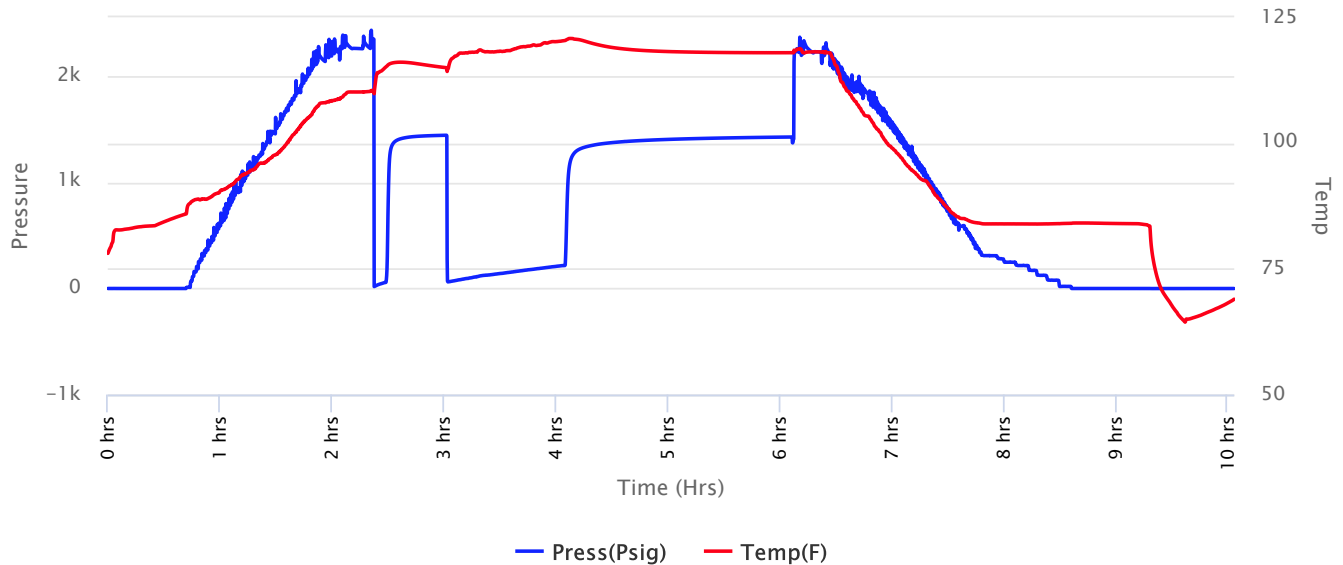
Electronic Volume  
Estimate:  
1013'

1st Open  
Minutes: 5  
5.9" at 5 min

1st Close  
Minutes: 30  
.5" at 30 min

2nd Open  
Minutes: 60  
61.9" at 60 min

2nd Close  
Minutes: 120  
10.6" at 120 min





**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**  
May  
**14**  
2018

**DST #1**      **Formation:**  
**Congland/Miss**  
**Test Interval: 4684 - 4760'**      **Total Depth: 4760'**  
Time On: 18:16 05/14      Time Off: 04:02 05/15  
Time On Bottom: 20:35 05/14      Time Off Bottom: 00:10 05/15

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
811	11.54053	G	100	0	0	0
167	2.37641	O	0	100	0	0
156	2.21988	SLGCHMCO	15	45	0	40
189	1.5840006	SLGCSLOCWCM	13	15	27	45

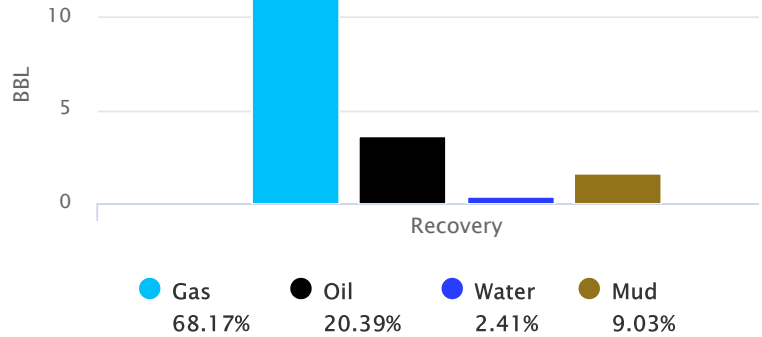
Total Recovered: 1323 ft

Total Barrels Recovered: 17.7208206

Reversed Out  
NO

Initial Hydrostatic Pressure	2262	PSI
Initial Flow	19 to 60	PSI
<b>Initial Closed in Pressure</b>	<b>1446</b>	<b>PSI</b>
Final Flow Pressure	64 to 217	PSI
<b>Final Closed in Pressure</b>	<b>1430</b>	<b>PSI</b>
Final Hydrostatic Pressure	2261	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	1.2	%

**Recovery at a glance**





**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

<b>DATE</b> May <b>14</b> 2018
---

<b>DST #1</b>	<b>Formation:</b> Congland/Miss	<b>Test Interval: 4684 -</b> <b>4760'</b>	<b>Total Depth: 4760'</b>
	Time On: 18:16 05/14	Time Off: 04:02 05/15	
	Time On Bottom: 20:35 05/14	Time Off Bottom: 00:10 05/15	

**REMARKS:**

1O. 1/2" Blow. Built to 6 inches in 5 mins  
1C. 1/2" Blow Back  
2O. 2" Blow. BOB in 8 1/2 mins  
2C. 10 3/4" Blow Back

Tool Sample: 10 % G 35 % O 20% W 35% M

Gravity: 33 @ 60 degrees F

Ph: 7

RW: .59 @ 54 degrees F

Chlorides: 15000 ppm



**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May

**14**

2018

**DST #1**

**Formation:**  
**Congland/Miss**

**Test Interval: 4684 -  
4760'**

**Total Depth: 4760'**

Time On: 18:16 05/14

Time Off: 04:02 05/15

Time On Bottom: 20:35 05/14    Time Off Bottom: 00:10 05/15

**Down Hole Makeup**

**Heads Up:** 9.43 FT

**Packer 1:** 4678.77 FT

**Drill Pipe:** 4549.3 FT  
*ID-3 1/2*

**Packer 2:** 4683.77 FT

**Weight Pipe:** 0 FT  
*ID-2 7/8*

**Top Recorder:** 4670.77 FT

**Collars:** 118.74 FT  
*ID-2 1/4*

**Bottom Recorder:** 4753 FT

**Test Tool:** 26.16 FT  
*ID-3 1/2-FH*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Bottom Choke:** 5/8"

**Total Anchor:** 76.23

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 62.73 FT  
*ID-3 1/2*

**Change Over:** 1 FT

**Perforations: (below):** 8 FT  
*4 1/2-FH*





**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May

**14**

2018

**DST #1**

**Formation:**  
**Congland/Miss**

**Test Interval: 4684 -  
4760'**

**Total Depth: 4760'**

Time On: 18:16 05/14

Time Off: 04:02 05/15

Time On Bottom: 20:35 05/14 Time Off Bottom: 00:10 05/15

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.3

**Viscosity:** 62

**Filtrate:** 8.8

**Chlorides:** 6400 ppm



**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May

**14**

2018

**DST #1**

**Formation:**  
**Congland/Miss**

**Test Interval: 4684 -  
4760'**

**Total Depth: 4760'**

Time On: 18:16 05/14

Time Off: 04:02 05/15

Time On Bottom: 20:35 05/14 Time Off Bottom: 00:10 05/15

**Gas Volume Report**

**1st Open**

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

**2nd Open**

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May  
**15**  
2018

**DST #2**

**Formation: Miss**

**Test Interval: 4768 -  
4780'**

**Total Depth: 4780'**

Time On: 15:47 05/15

Time Off: 01:07 05/16

Time On Bottom: 18:12 05/15

Time Off Bottom: 21:48 01/01

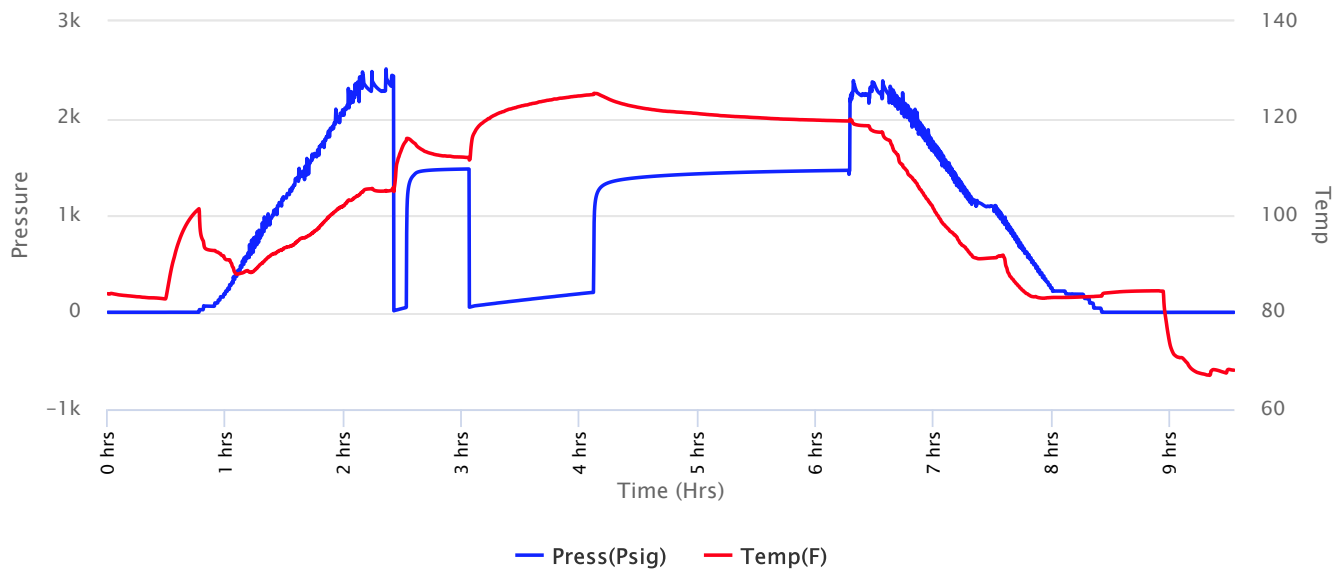
Electronic Volume  
Estimate:  
424'

1st Open  
Minutes: 5  
2.7" at 5 min

1st Close  
Minutes: 30  
0" at 30 min

2nd Open  
Minutes: 60  
24.9" at 60 min

2nd Close  
Minutes: 120  
0" at 120 min





**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**  
May  
**15**  
2018

**DST #2**      **Formation: Miss**      **Test Interval: 4768 - 4780'**      **Total Depth: 4780'**

Time On: 15:47 05/15      Time Off: 01:07 05/16  
Time On Bottom: 18:12 05/15      Time Off Bottom: 21:48 01/01

Recovered

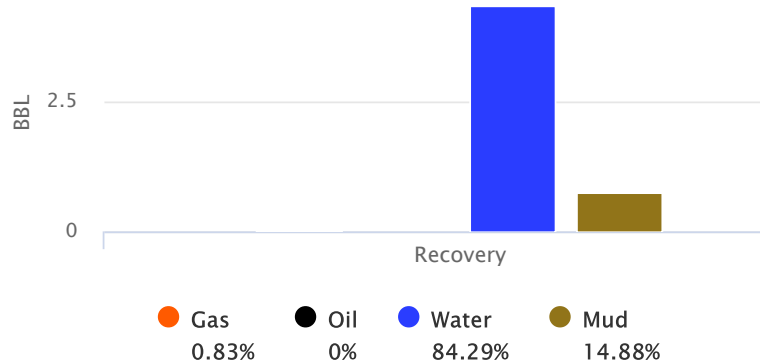
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
3	0.04269	G	100	0	0	0
438	5.1036232	SLMCW	0	0	85	15

Total Recovered: 441 ft

Total Barrels Recovered: 5.1463132

Reversed Out  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2317	PSI
Initial Flow	15 to 53	PSI
<b>Initial Closed in Pressure</b>	<b>1477</b>	<b>PSI</b>
Final Flow Pressure	53 to 205	PSI
<b>Final Closed in Pressure</b>	<b>1464</b>	<b>PSI</b>
Final Hydrostatic Pressure	2309	PSI
Temperature	126	°F
Pressure Change Initial Close / Final Close	0.8	%





**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

<b>DATE</b> May <b>15</b> 2018
---

<b>DST #2</b>	<b>Formation: Miss</b>	<b>Test Interval: 4768 - 4780'</b>	<b>Total Depth: 4780'</b>
	Time On: 15:47 05/15	Time Off: 01:07 05/16	
	Time On Bottom: 18:12 05/15	Time Off Bottom: 21:48 01/01	

**REMARKS:**

1O. 1/2 Blow. Built to 2 3/4 inches in 5 mins

1C. NOBB

2O. 1/2" Blow. BOB in 26 1/2 mins

2C. NOBB

Tool Sample: 5 % O 60% W 35% M

Ph: 7

RW: .42 @ 64 degrees F

Chlorides: 27000 ppm



**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May

**15**

2018

**DST #2**

**Formation: Miss**

**Test Interval: 4768 -  
4780'**

**Total Depth: 4780'**

Time On: 15:47 05/15

Time Off: 01:07 05/16

Time On Bottom: 18:12 05/15 Time Off Bottom: 21:48 01/01

**Down Hole Makeup**

**Heads Up:** 29.13 FT

**Packer 1:** 4763 FT

**Drill Pipe:** 4643.28 FT  
*ID-3 1/2*

**Packer 2:** 4768 FT

**Weight Pipe:** 0 FT  
*ID-2 7/8*

**Top Recorder:** 4752.42 FT

**Collars:** 121.28 FT  
*ID-2 1/4*

**Bottom Recorder:** 4773 FT

**Test Tool:** 33.57 FT  
*ID-3 1/2-FH*  
*Jars*  
*Safety Joint*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Bottom Choke:** 5/8"

**Total Anchor:** 12

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** 0 FT

**Drill Pipe: (in anchor):** 0 FT  
*ID-3 1/2*

**Change Over:** 0 FT

**Perforations: (below):** 8 FT  
*4 1/2-FH*



**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May

**15**

2018

**DST #2**

**Formation: Miss**

**Test Interval: 4768 -  
4780'**

**Total Depth: 4780'**

Time On: 15:47 05/15

Time Off: 01:07 05/16

Time On Bottom: 18:12 05/15 Time Off Bottom: 21:48 01/01

**Mud Properties**

**Mud Type: Chem**

**Weight: 9.25**

**Viscosity: 65**

**Filtrate: 10**

**Chlorides: 5200 ppm**



**Company: Mull Drilling  
Company, Inc**  
**Lease: Fagen #1-30**

SEC: 30 TWN: 24S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: WW Drilling, LLC -  
Rig 4  
Elevation: 2412 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 155

**DATE**

May

**15**

2018

**DST #2**

**Formation: Miss**

**Test Interval: 4768 -  
4780'**

**Total Depth: 4780'**

Time On: 15:47 05/15

Time Off: 01:07 05/16

Time On Bottom: 18:12 05/15 Time Off Bottom: 21:48 01/01

**Gas Volume Report**

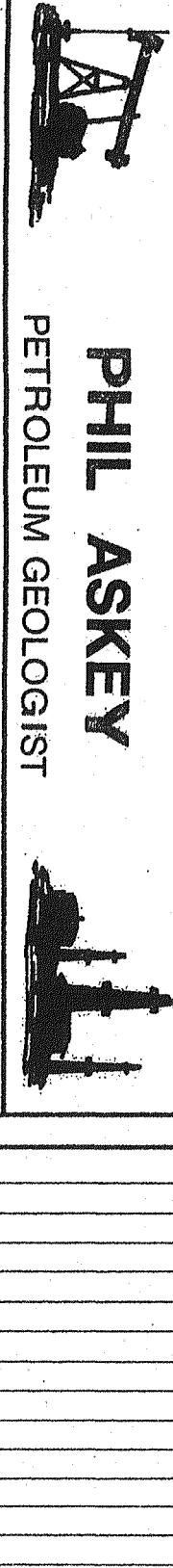
**1st Open**

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

**2nd Open**

Time	Orifice	PSI	MCF/D
------	---------	-----	-------





# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mull Drilling Company, Inc.

LEASE Fagen #1-30

FIELD W. 1/4 Sec 30

LOCATION R55° E 163' FEL

SEC 30 TWP 24 S RGE 23 W

COUNTY Hodgeman STATE Kansas

CONTRACTOR Mull Drilling #4

SPUD 5-6-68 COMP 5-16-68

RTD 4-8-69 LTD 4-8-69

MUD UP 3500' TYPE MUD Chemical Mud

SAMPLES EXAMINED FROM 3900' TO 4700'

DRILLING TIME KEPT FROM 3900' TO 4700'

GEOLOGICAL SUPERVISION FROM 3500' TO 4700'

GEOLOGIST ON WELL Phil Askey

FORMATION TOPS		LOG	SAMPLES	+/-	REFERENCE WELL
Atchafalaya	1550 ± 67	1549	+31		Canadian Oil Corp. #1 30' ± 1