

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	WIELAND-CMB UNIT 1-4
Doc ID	1413402

All Electric Logs Run

CDI/CNL/PE
DIL
MEL
Sonic

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	WIELAND-CMB UNIT 1-4
Doc ID	1413402

Tops

Name	Top	Datum
Anhydrite	2544	+ 470
B/Anhydrite	2564	+ 450
Heebner	4005	- 991
Lansing	4049	- 1035
Stark	4266	- 1252
Marmaton	4361	- 1347
Pawnee	4449	- 1435
Myrick Station	4484	- 1470
Ft. Scott	4497	- 1473
Cherokee	4540	- 1526
Mississippian	4616	- 1602



PRESSURE PUMPING LLC
 PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
 CEMENT

TICKET NUMBER 55032
 LOCATION Oakley Ks
 FOREMAN Walt Duke

Invoice #812633

~~10090~~
 10090

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-9-18	51059	Wieland CMB Unit #1-4	4	11S	31W	Goive
CUSTOMER Mull Dots Co		Oakley	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 1700 N. Waterfront Parkway, Bldg 1200		4 West	733	Travis Williams		
CITY Wichita		STATE KS	566	Krith Carswell		
ZIP CODE 67206-6635						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 267' CASING SIZE & WEIGHT 8 5/8 - 24#
 CASING DEPTH 267' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15' to 20'
 DISPLACEMENT 15 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Safety Meeting: rig up on Duke #1, circ casing on bottom
mix 17.5 sls com, 3% acc - 2% cal, Displace 15 3/4 BBL HO, Shut in.

Cement Dred Circ

Thank You
 Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
C00471	1	PUMP CHARGE	1,150.00	1,150.00
C00002	5	MILEAGE	7.15	35.75
C00711	8.2.3	Ton Mileage Delivery	175	660.00
AD CC5871	17.5 sls	Surface Blend II	24.00	4,200.00
CC5326	2	Salt	N/C	N/C
				6,045.75
		Less 30% Disc		-1,813.73
				4,232.02
		SALES TAX		249.90
		ESTIMATED TOTAL		4,481.92

Ravin 3737

AUTHORIZATION Mike Coffey TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Services, Inc.

CHARGE TO: Maell Drilling Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 031337

LEASE: W. Leonard - CMB Unit
 COUNTY/PARISH: Greene
 RIG NAME/NO.: #1
 STATE: KS CITY: Oakley
 DELIVERED TO: Local Firm
 WELL PERMIT NO.

PAGE 1 OF 2

1. SERVICE LOCATIONS: Wess City KS WELL/PROJECT NO.: #1-11 CONTRACTOR: Duke Drilling WELL TYPE: Oil WELL CATEGORY: Development JOB PURPOSE: Cement 5 1/2" Longstring DATE: 3-20-18 ORDER NO.: Swine OWNER: Swine

2. TICKET TYPE: SERVICE SALES
 3. WELL TYPE: Oil
 4. REFERRAL LOCATION: Oakley - 3 E, Hwy E info

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.		
575					MILEAGE			80	mi.	400
578					Pump Charge - Longstring			1	job	1300
400					Guide Shoe			1	ea	180
402					Centralizer			12	ea	840
403					Cement Basket			1	ea	275
404					Port Collar			1	ea	2500
410					Top Plug			1	ea	100
415					Insert Float Collar w/ Fill up			1	ea	350
194					Plug Connectors Rental			1	job	200

REMIT PAYMENT TO:

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

DATE SIGNED: 3-20-18 TIME SIGNED: 1200
 A.M. P.M.

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				102 disc	6145
WE UNDERSTOOD AND MET YOUR NEEDS?				7974	56
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				14119	56
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				12907	60
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		6102	90739
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				8510	
TOTAL					130499

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

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

SWIFT OPERATOR: David Kuehn APPROVAL: Kay Bue Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. # 31337

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE		PAGE			
		LOC	ACCT	DR			QTY	U/M	QTY	U/M		PRICE	AMOUNT	
327						50/50 Pozmix (2% Gal)								
283						Sell	10%		225	skt	9	140	2115	00
292						Helack 322	1/2%		1000	lbs	00	20	2200	00
276						Floce	1/4%		50	lbs	2	150	8000	00
290						D-Air			3	gal	42	00	126	00
280						Flockeek 21			1000	gal	3	50	3500	00
221						Liquid KCL			2	gal	25	00	50	00
581														
583														
SERVICE CHARGE														
MILEAGE CHARGE														
TOTAL WEIGHT														
TOTAL MILES														
CUBIC FEET														
TON MILES														

CONTINUATION TOTAL

7974.56

JOB LOG

SWIFT Services, Inc.

DATE 3-20-18 PAGE NO. 1

CUSTOMER Mull & Drilling Co. WELL NO. #1-4 LEASE Wickland-CMB Unit JOB TYPE 5 1/2" Longstring TICKET NO. #31337

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on location 5 1/2" 14"
								RTD-4725' LTD-4721' TP-4698' SS-#1 42.40' P.C. #51 2576' cent-#2#3#5#6#8#9#10#11#12#13#14#50 Basket-#51
	1230							Start 5 1/2" 14" casing in well
	1430							Drop Ball circulate
	1545	6 1/2	15		✓	300		Pump 15 bbl KCL Flush
		6 1/2	24		✓	300		Pump 1000 gal Flocheck 21
		6 1/2	5		✓	300		Pump 5 bbl KCL Flush
			7.5					Plug RH-MH (30-20)
	1600	4 1/2	40		✓	200		mix 175 sks 50/50 poz mix @ 14.38 ppg
								wash out Pump + Lines Release Top Plug
	1620	6 1/2	Ø		✓	100		Start Displacement
		6 1/2	91		✓	300		lift Pressure
		6 1/2	113		✓	750		Max lift Pressure
	1635	6 1/2	113.6		✓	1600		Land Top Plug
								Release Pressure
								wash up truck
	1700							Job Complete

Thank You
Dave Preston Isaac



CHARGE TO: Wall Drilling Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 031343

PAGE 1 OF 1

1. SERVICE LOCATIONS: Ness City, KS WELL/PROJECT NO. h 1-4 LEASE Richard - CMB Unit COUNTY/PARISH Coville STATE KS CITY Oakley DATE 3-28 OWNER Swave

2. TICKET TYPE: SERVICE SALES CONTRACTOR Cheyenne Oil Service RIG NAME/NO.

3. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 5 1/2" Postcollar SHIPPED VIA CT DELIVERED TO Location WELL PERMIT NO.

4. REFERRAL LOCATION INVOICE INSTRUCTIONS WELL LOCATION Oakley - 2E, 1/2 y. E.

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT		AMOUNT
		LOC	ACCT	DF		U/M	U/M	PRICE		
575					MILEAGE		80	mi	5.00	400.00
576 D					Trk # 112					
330					Round Change - Post Collar		1	jobs	1300.00	1300.00
276					SMB Cement		200	sls	16.25	3250.00
290					Floacle		1/4	1lb	2.50	125.00
275					D-Air				42.00	84.00
					Cotton Seed Hulls		2	gal	30.00	60.00
581					Service Charge Cement		325	sls	1.75	568.75
583					Drayage		1293	TM	00.85	1099.15

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 3-28-18 TIME SIGNED 10:15 A.M. P.M.

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDISCORDED	DISAGREE
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL 6886

TOTAL 14407.3

SWIFT OPERATOR David Kusner APPROVAL Ray

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3-28-18	PAGE NO. 1
TICKET NO. #31343	

CUSTOMER
Mull Drilling

WELL NO.
#1-4

LEASE
Wickland - CMB Unit

JOB TYPE
Port Collar

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							on location 2 7/8 x 5 1/2 P.C. - 2576'
	0840	∅	∅		✓		1000	Pressure Test Hold Open P.C.
	0850	3 1/2	3		✓		400	Injection Rate
	0855	3 1/2	110		✓		300	mix 200 sks SMD 1/4" Flt @ 11.2 vpp circulate cement to surface
		3 1/2	14 1/2		✓		600	Displace Cement
	0935	∅	∅		✓		1000	Close P.C. Test *Hold* Run 6 Jts
	0950	3 1/2	30		✓		300	Reverse Clean wash up truck *200 sks Total* *30 sks to pit*
	1020							Job Complete

Thank You
Dore Preston Isaac



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
14
2018

DST #1 Formation: Lansing "D-F" Test Interval: 4095 - 4155' Total Depth: 4155'

Time On: 13:59 03/14 Time Off: 00:05 03/15
Time On Bottom: 16:51 03/14 Time Off Bottom: 20:26 03/14

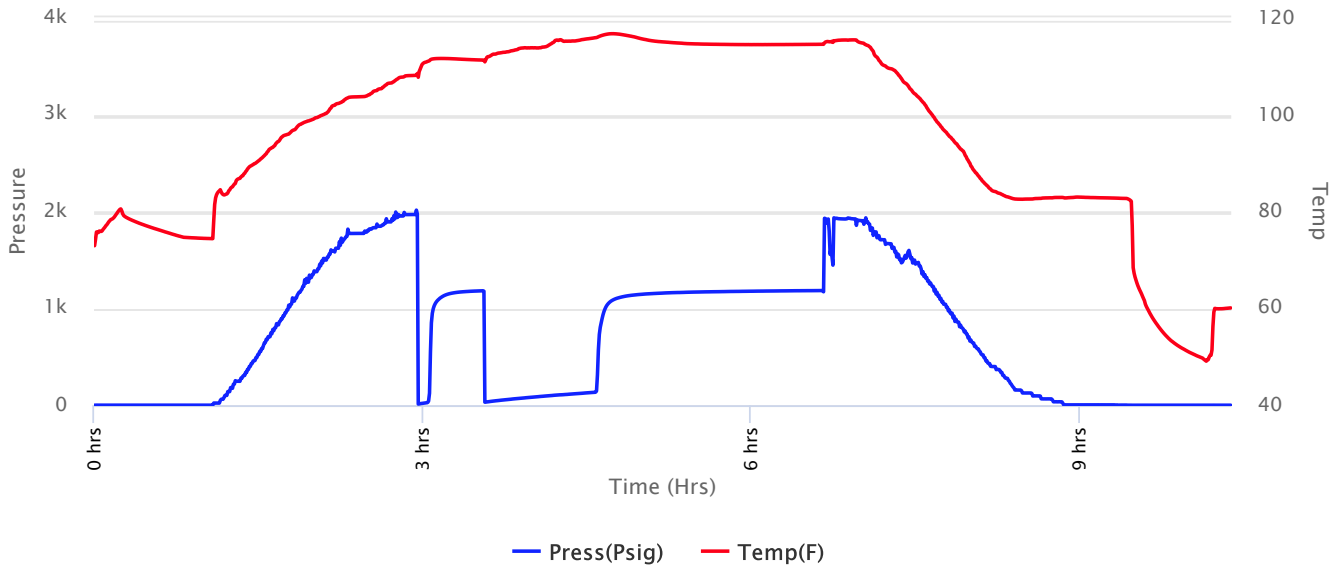
Electronic Volume Estimate:
371'

1st Open
Minutes: 5
2.5" at 5 min

1st Close
Minutes: 30
0" at 30 min

2nd Open
Minutes: 60
30.0" at 60 min

2nd Close
Minutes: 120
.9" at 120 min





**Company: Mull Drilling
Company, Inc**

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
 County: GOVE
 State: Kansas
 Drilling Contractor: Duke Drilling
 Company, Inc - Rig 10
 Elevation: 3002 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 126

DATE
 March
14
 2018

DST #1 Formation: Lansing "D-F" Test Interval: 4095 - 4155' Total Depth: 4155'

Time On: 13:59 03/14 Time Off: 00:05 03/15
 Time On Bottom: 16:51 03/14 Time Off Bottom: 20:26 03/14

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
70	0.7588	SLMCO	0	93	0	7
130	1.4092	HMCO	0	56	0	44
30	0.3252	MCO	0	79	0	21
65	0.7046	HOCM	0	31	0	69

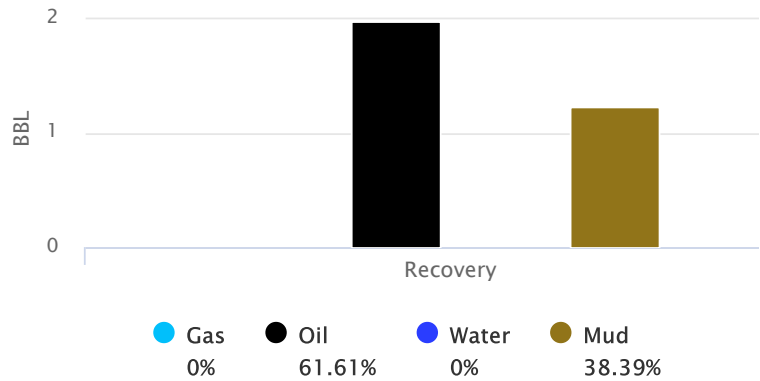
Total Recovered: 295 ft
 Total Barrels Recovered: 3.1978

Reversed Out
 NO

Initial Hydrostatic Pressure	1967	PSI
Initial Flow	13 to 28	PSI
Initial Closed in Pressure	1181	PSI
Final Flow Pressure	32 to 134	PSI
Final Closed in Pressure	1183	PSI
Final Hydrostatic Pressure	1933	PSI
Temperature	118	°F

Pressure Change Initial 0.0 %
 Close / Final Close

Recovery at a glance





Company: Mull Drilling Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
14
2018

DST #1 **Formation: Lansing "D-F"** **Test Interval: 4095 - 4155'** **Total Depth: 4155'**

Time On: 13:59 03/14 Time Off: 00:05 03/15
Time On Bottom: 16:51 03/14 Time Off Bottom: 20:26 03/14

REMARKS:

IF: 3 inch blow
ISI: No BB
FF: BOB 23 min.
FSI: 1 inch BB

TOOL SAMPLE: 43% OIL, 57% MUD

Gravity: 29.9 @ 60 degrees F



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 14 2018

DST #1 Formation: Lansing "D-F" Test Interval: 4095 - 4155' Total Depth: 4155'

Time On: 13:59 03/14 Time Off: 00:05 03/15
Time On Bottom: 16:51 03/14 Time Off Bottom: 20:26 03/14

Down Hole Makeup

Heads Up: 21.59 FT	Packer 1: 4090.12 FT
Drill Pipe: 4084.14 FT ID-3	Packer 2: 4095.12 FT
Weight Pipe: 0 FT ID-2/ 7/8	Top Recorder: 4079.54 FT
Collars: 0 FT ID-2 1/4	Bottom Recorder: 4133 FT
Test Tool: 33.57 FT ID-3 1/2-FH Jars Safety Joint	Well Bore Size: 7 7/8
Total Anchor: 59.88	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 3 FT 4 1/2-FH	
Change Over: .5 FT	
Drill Pipe: (in anchor): 31.38 FT ID-3	
Change Over: 1 FT	
Perforations: (below): 23 FT 4 1/2-FH	



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 14 2018

DST #1 Formation: Lansing Test Interval: 4095 - Total Depth: 4155'
 "D-F" 4155'

Time On: 13:59 03/14 Time Off: 00:05 03/15

Time On Bottom: 16:51 03/14 Time Off Bottom: 20:26 03/14

Gas Volume Report

1st Open

2nd Open

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

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



**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
 County: GOVE
 State: Kansas
 Drilling Contractor: Duke Drilling
 Company, Inc - Rig 10
 Elevation: 3002 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 126

DATE
March
15
2018

DST #2 Formation: Lansing "I & J" Test Interval: 4220 - 4280' Total Depth: 4280'

Time On: 16:59 03/15 Time Off: 02:49 03/16
 Time On Bottom: 20:27 03/15 Time Off Bottom: 00:02 03/16

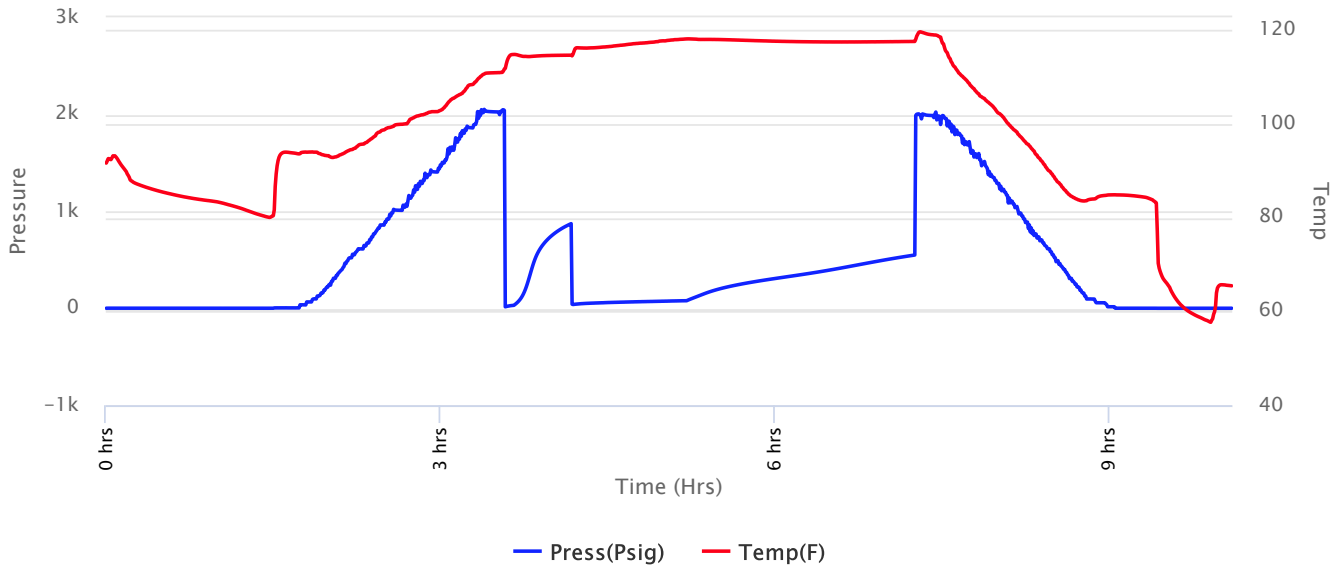
Electronic Volume Estimate:
523'

1st Open
Minutes: 5
5.0" at 5 min

1st Close
Minutes: 30
0" at 30 min

2nd Open
Minutes: 60
40.8" at 60 min

2nd Close
Minutes: 120
0" at 120 min





**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
15
2018

DST #2 **Formation: Lansing "I & J"** **Test Interval: 4220 - 4280'** **Total Depth: 4280'**
 Time On: 16:59 03/15 Time Off: 02:49 03/16
 Time On Bottom: 20:27 03/15 Time Off Bottom: 00:02 03/16

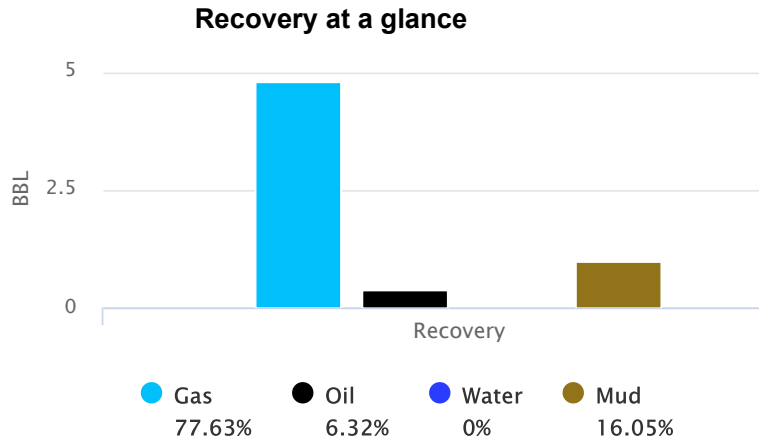
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
420	4.5528	G	100	0	0	0
150	1.626	SLGCOCM	15	24	0	61

Total Recovered: 570 ft
Total Barrels Recovered: 6.1788

Reversed Out
NO

Initial Hydrostatic Pressure	1997	PSI
Initial Flow	15 to 31	PSI
Initial Closed in Pressure	873	PSI
Final Flow Pressure	39 to 78	PSI
Final Closed in Pressure	549	PSI
Final Hydrostatic Pressure	1989	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	37.1	%





**Company: Mull Drilling
Company, Inc**

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
 County: GOVE
 State: Kansas
 Drilling Contractor: Duke Drilling
 Company, Inc - Rig 10
 Elevation: 3002 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 126

DATE
 March
15
 2018

DST #2 Formation: Lansing Test Interval: 4220 - Total Depth: 4280'
"I& J" 4280'

Time On: 16:59 03/15 Time Off: 02:49 03/16
 Time On Bottom: 20:27 03/15 Time Off Bottom: 00:02 03/16

REMARKS:

- IF: 5 inch blow
- ISI: No BB
- FF: BOB 9 min
- FSI: Surface BB

TOOL SAMPLE: 55% OIL, 45% MUD



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 15 2018

DST #2	Formation: Lansing	Test Interval: 4220 -	Total Depth: 4280'
	"I & J"	4280'	
	Time On: 16:59 03/15	Time Off: 02:49 03/16	
	Time On Bottom: 20:27 03/15	Time Off Bottom: 00:02 03/16	

Down Hole Makeup

Heads Up: 21.82 FT	Packer 1: 4215.15 FT
Drill Pipe: 4209.4 FT <i>ID-3</i>	Packer 2: 4220.15 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4204.57 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4258 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: 59.85	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: .5 FT	
Drill Pipe: (in anchor): 31.35 FT <i>ID-3</i>	
Change Over: 1 FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

<p>DATE March 15 2018</p>

DST #2	Formation: Lansing "I & J"	Test Interval: 4220 - 4280'	Total Depth: 4280'
	Time On: 16:59 03/15	Time Off: 02:49 03/16	
	Time On Bottom: 20:27 03/15	Time Off Bottom: 00:02 03/16	

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 54 **Filtrate:** 6.4 **Chlorides:** 2,400 ppm



Company: Mull Drilling

Company, Inc

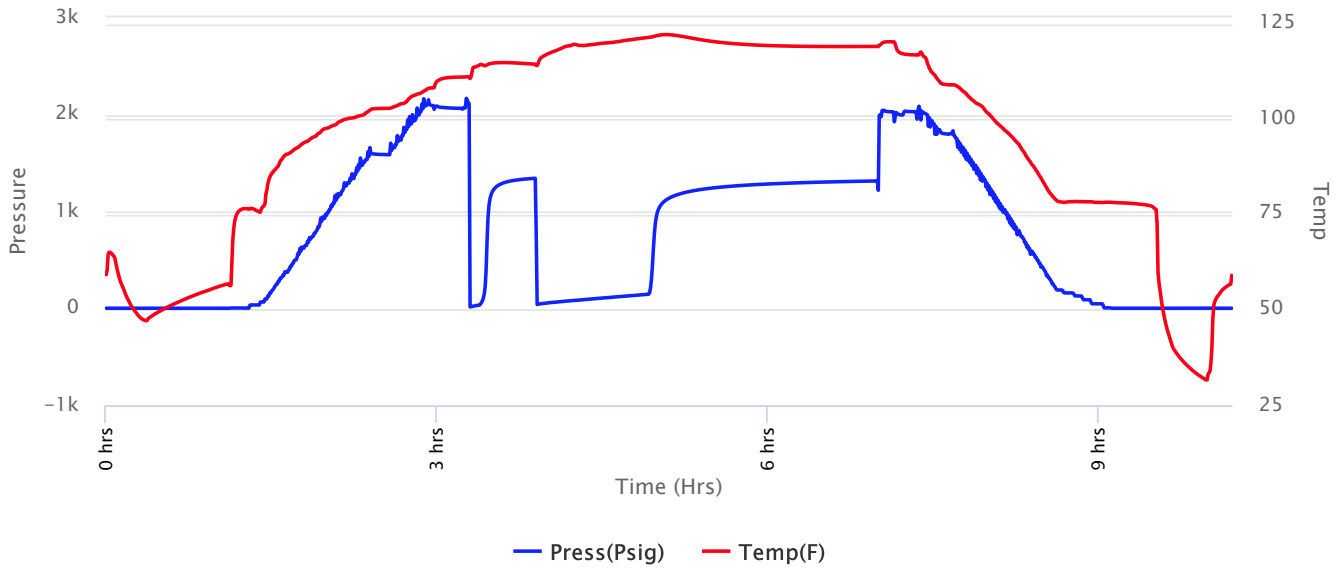
Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
16
2018

DST #3 **Formation:**
Pleasanton **Test Interval: 4330 -** **Total Depth: 4375'**
Time On: 15:56 03/16 Time Off: 01:52 03/17
Time On Bottom: 19:08 03/16 Time Off Bottom: 22:43 03/16

Electronic Volume Estimate: 1348'
1st Open Minutes: 5 5.8" at 5 min
1st Close Minutes: 30 0" at 30 min
2nd Open Minutes: 60 106.5" at 60 min
2nd Close Minutes: 120 5.0" at 120 min





**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
16
2018

DST #3 **Formation:**
Pleasanton

Test Interval: 4330 - 4375' **Total Depth: 4375'**

Time On: 15:56 03/16 Time Off: 01:52 03/17
Time On Bottom: 19:08 03/16 Time Off Bottom: 22:43 03/16

Recovered

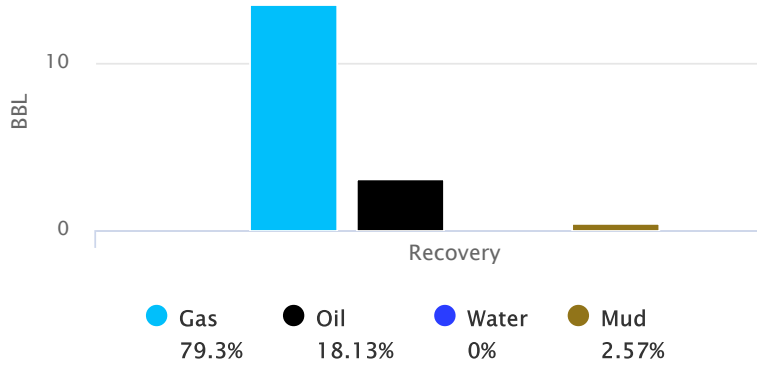
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1230	13.3332	G	100	0	0	0
180	1.9512	SLGCO	4	96	0	0
100	1.084	SLGCSLMCO	4	88	0	8
65	0.7046	SLGCHOCM	12	38	0	50

Total Recovered: 1575 ft
Total Barrels Recovered: 17.073

Reversed Out
NO

Initial Hydrostatic Pressure	2067	PSI
Initial Flow	14 to 33	PSI
Initial Closed in Pressure	1341	PSI
Final Flow Pressure	39 to 145	PSI
Final Closed in Pressure	1313	PSI
Final Hydrostatic Pressure	2043	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	2.1	%

Recovery at a glance





Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 16 2018

DST #3

Formation:
Pleasanton

Test Interval: 4330 -
4375'

Total Depth: 4375'

Time On: 15:56 03/16

Time Off: 01:52 03/17

Time On Bottom: 19:08 03/16

Time Off Bottom: 22:43 03/16

REMARKS:

IF; 6 inch blow

ISI: No BB

FF: BOB 3 min

FSI: 5 inch BB

TOOL SAMPLE: 53% OIL, 47% MUD

Gravity: 35.7 @ 60 degrees F



**Company: Mull Drilling
Company, Inc**

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

<p>DATE March 16 2018</p>

DST #3 **Formation:** Pleasanton **Test Interval:** 4330 - 4375' **Total Depth:** 4375'

Time On: 15:56 03/16 Time Off: 01:52 03/17
Time On Bottom: 19:08 03/16 Time Off Bottom: 22:43 03/16

Down Hole Makeup

Heads Up: 7 FT	Packer 1: 4325 FT
Drill Pipe: 4304.43 FT <i>ID-3</i>	Packer 2: 4330 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4314.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4332 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	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</i>	
Change Over: 0 FT	
Perforations: (below): 44 FT <i>4 1/2-FH</i>	



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

<p>DATE March 16 2018</p>

DST #3

Formation:
Pleasanton

Test Interval: 4330 -
4375'

Total Depth: 4375'

Time On: 15:56 03/16

Time Off: 01:52 03/17

Time On Bottom: 19:08 03/16

Time Off Bottom: 22:43 03/16

Mud Properties

Mud Type: Chemical

Weight: 9.1

Viscosity: 56

Filtrate: 6.8

Chlorides: 2,200 ppm



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 16 2018

DST #3

Formation:
Pleasanton

Test Interval: 4330 -
4375'

Total Depth: 4375'

Time On: 15:56 03/16

Time Off: 01:52 03/17

Time On Bottom: 19:08 03/16 Time Off Bottom: 22:43 03/16

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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**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

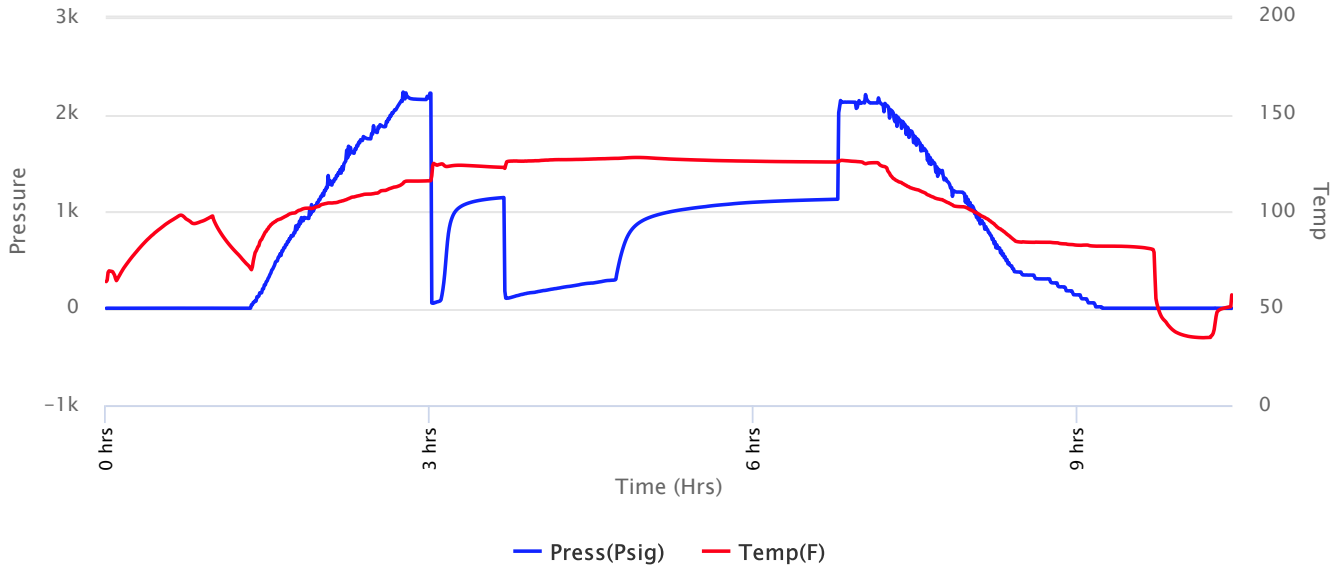
SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
18
2018

DST #4 Formation: Pawnee- Ft. Scott Test Interval: 4465 - 4540' Total Depth: 4540'

Time On: 23:16 03/17 Time Off: 09:25 03/18
Time On Bottom: 02:11 03/18 Time Off Bottom: 05:51 03/18

Electronic Volume Estimate:	<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
3123'	Minutes: 5	Minutes: 35	Minutes: 60	Minutes: 120
	44.5" at 5 min	0" at 35 min	235.6" at 60 min	12.3" at 120 min





**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
18
2018

**DST #4 Formation: Pawnee-
Ft. Scott Test Interval: 4465 - Total Depth: 4540'**
Time On: 23:16 03/17 Time Off: 09:25 03/18
Time On Bottom: 02:11 03/18 Time Off Bottom: 05:51 03/18

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3240	35.1216	G	100	0	0	0
385	4.1734	SLGCO	8	92	0	0
70	0.7588	SLGCHMCO	12	48	0	40
65	0.7046	SLWCSLGCSLOCM	16	17	4	63
65	0.7046	SLWCSLGCHOCM	6	41	5	48
125	1.355	SLOCHMCW	0	3	50	47

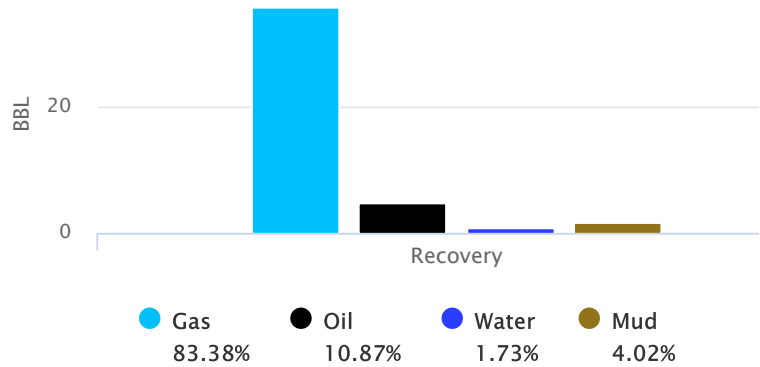
Total Recovered: 3950 ft
Total Barrels Recovered: 42.818

Reversed Out
YES

Initial Hydrostatic Pressure 2167 PSI
Initial Flow 55 to 60 PSI
Initial Closed in Pressure 1142 PSI
Final Flow Pressure 105 to 298 PSI
Final Closed in Pressure 1125 PSI
Final Hydrostatic Pressure 2163 PSI
Temperature 128 °F

Pressure Change Initial 1.5 %
Close / Final Close

Recovery at a glance





**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 18 2018

DST #4	Formation: Pawnee- Ft. Scott	Test Interval: 4465 - 4540'	Total Depth: 4540'
	Time On: 23:16 03/17	Time Off: 09:25 03/18	
	Time On Bottom: 02:11 03/18	Time Off Bottom: 05:51 03/18	

REMARKS:

IF:BOB 1 1/2 min
ISI:No BB
FF: BOB 1 1/2 min
FSI; BOB BB
We got Gas To Surface on the final shut-in

TOOL SAMPLE: 22% OIL, 25% WATER, 53% MUD

Gravity: 41.1 @ 60 degrees F

Ph: 7.5

RW: .28 @ 58 degrees F

Chlorides: 33,000 ppm



**Company: Mull Drilling
Company, Inc**
Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
18
2018

DST #4 Formation: Pawnee-
Ft. Scott Test Interval: 4465 -
4540' Total Depth: 4540'

Time On: 23:16 03/17 Time Off: 09:25 03/18
Time On Bottom: 02:11 03/18 Time Off Bottom: 05:51 03/18

Down Hole Makeup

Heads Up: 28.97 FT	Packer 1: 4459.68 FT
Drill Pipe: 4461.08 FT <i>ID-3</i>	Packer 2: 4464.68 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4449.1 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4502 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: 75.32	Surface Choke: 1"
	Bottom Choke: 5/8"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 30.82 FT <i>ID-3</i>	
Change Over: 1 FT	
Perforations: (below): 39 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 18 2018

DST #4	Formation: Pawnee- Ft. Scott	Test Interval: 4465 - 4540'	Total Depth: 4540'
	Time On: 23:16 03/17	Time Off: 09:25 03/18	
	Time On Bottom: 02:11 03/18	Time Off Bottom: 05:51 03/18	

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 61 **Filtrate:** 7.6 **Chlorides:** 2,000 ppm



**Company: Mull Drilling
Company, Inc**
Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
18
2018

DST #4 Formation: Pawnee- Test Interval: 4465 - Total Depth: 4540'
Ft. Scott 4540'

Time On: 23:16 03/17 Time Off: 09:25 03/18
Time On Bottom: 02:11 03/18 Time Off Bottom: 05:51 03/18

Gas Volume Report

Remarks: GOT GAS TO SURFACE DURING FINAL SHUT-IN PERIOD

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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Company: Mull Drilling

Company, Inc

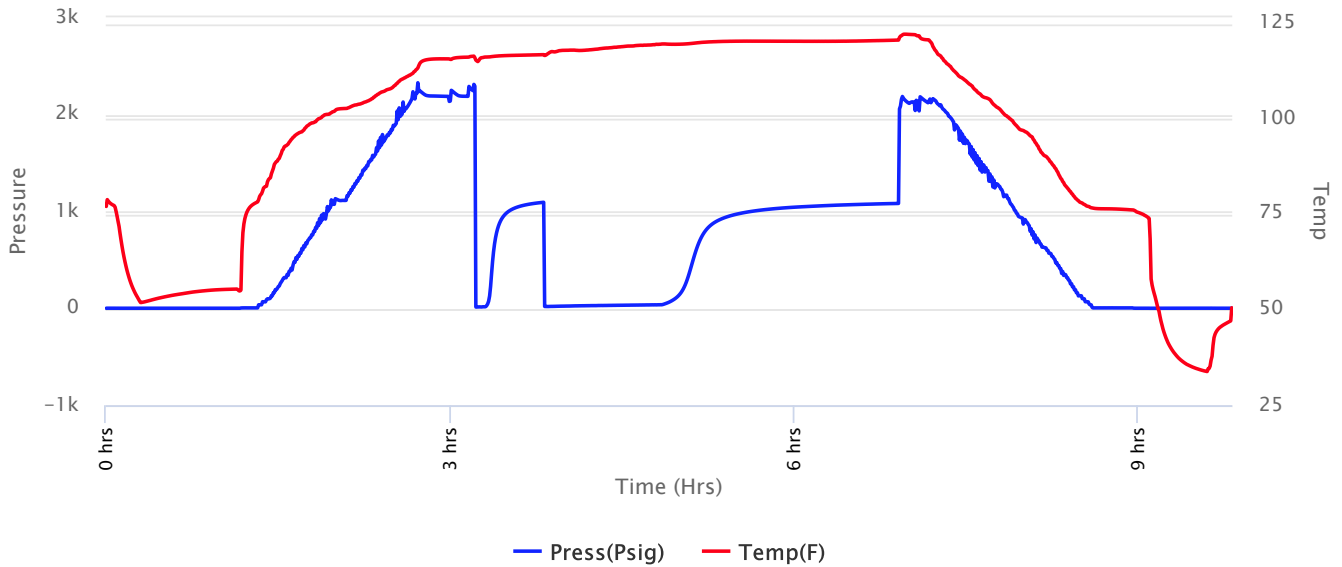
Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
19
2018

DST #5 **Formation:** Cherokee Sd. **Test Interval: 4540 - 4610'** **Total Depth: 4610'**
Time On: 21:08 03/18 Time Off: 06:41 03/19
Time On Bottom: 00:15 03/19 Time Off Bottom: 03:50 03/19

Electronic Volume Estimate: 118'
1st Open Minutes: 5 1st Close Minutes: 30 2nd Open Minutes: 60 2nd Close Minutes: 120
1.2" at 5 min 0" at 30 min 8.3" at 60 min 0" at 120 min





**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE
March
19
2018

DST #5 **Formation:**
Cherokee Sd. **Test Interval: 4540 -** **Total Depth: 4610'**
Time On: 21:08 03/18 Time Off: 06:41 03/19
Time On Bottom: 00:15 03/19 Time Off Bottom: 03:50 03/19

Recovered

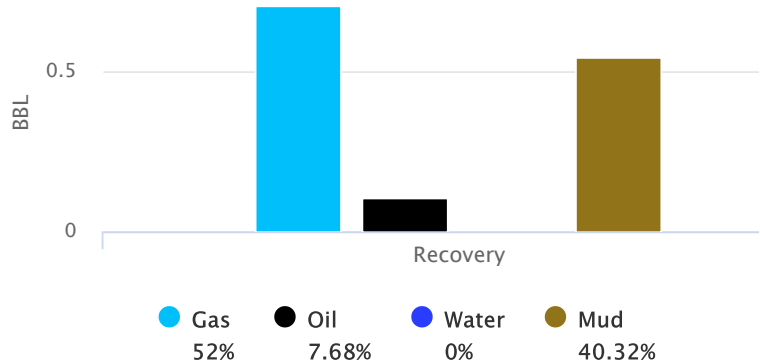
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
65	0.7046	G	100	0	0	0
60	0.6504	SLOCM	0	16	0	84

Total Recovered: 125 ft
Total Barrels Recovered: 1.355

Reversed Out
NO

Initial Hydrostatic Pressure	2244	PSI
Initial Flow	13 to 17	PSI
Initial Closed in Pressure	1093	PSI
Final Flow Pressure	19 to 39	PSI
Final Closed in Pressure	1081	PSI
Final Hydrostatic Pressure	2184	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	1.1	%

Recovery at a glance





**Company: Mull Drilling
Company, Inc
Lease: Wieland-CMB Unit #1-4**

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 19 2018

DST #5	Formation: Cherokee Sd.	Test Interval: 4540 - 4610'	Total Depth: 4610'
	Time On: 21:08 03/18	Time Off: 06:41 03/19	
	Time On Bottom: 00:15 03/19	Time Off Bottom: 03:50 03/19	

REMARKS:

IF 1 inch blow
ISI: No BB
FF: 8 inch blow
FSI: No BB

TOOL SAMPLE: 66% OIL, 34% MUD



**Company: Mull Drilling
Company, Inc**

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

<p>DATE March 19 2018</p>

DST #5 **Formation:** Cherokee Sd. **Test Interval: 4540 - 4610'** **Total Depth: 4610'**

Time On: 21:08 03/18 Time Off: 06:41 03/19
Time On Bottom: 00:15 03/19 Time Off Bottom: 03:50 03/19

Down Hole Makeup

Heads Up: 15.59 FT	Packer 1: 4534.68 FT
Drill Pipe: 4522.7 FT <i>ID-3</i>	Packer 2: 4539.68 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4524.1 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4577 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: 70.32	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: .5 FT	
Drill Pipe: (in anchor): 30.82 FT <i>ID-3</i>	
Change Over: 1 FT	
Perforations: (below): 34 FT <i>4 1/2-FH</i>	



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

<p>DATE March 19 2018</p>

DST #5

Formation:
Cherokee Sd.

Test Interval: 4540 -
4610'

Total Depth: 4610'

Time On: 21:08 03/18

Time Off: 06:41 03/19

Time On Bottom: 00:15 03/19

Time Off Bottom: 03:50 03/19

Mud Properties

Mud Type: Chemical

Weight: 9.1

Viscosity: 60

Filtrate: 6.2

Chlorides: 2,000 ppm



Company: Mull Drilling

Company, Inc

Lease: Wieland-CMB Unit #1-4

SEC: 4 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 10
Elevation: 3002 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 126

DATE March 19 2018

DST #5 **Formation:** **Test Interval: 4540 -** **Total Depth: 4610'**
Cherokee Sd. **4610'**
Time On: 21:08 03/18 Time Off: 06:41 03/19
Time On Bottom: 00:15 03/19 Time Off Bottom: 03:50 03/19

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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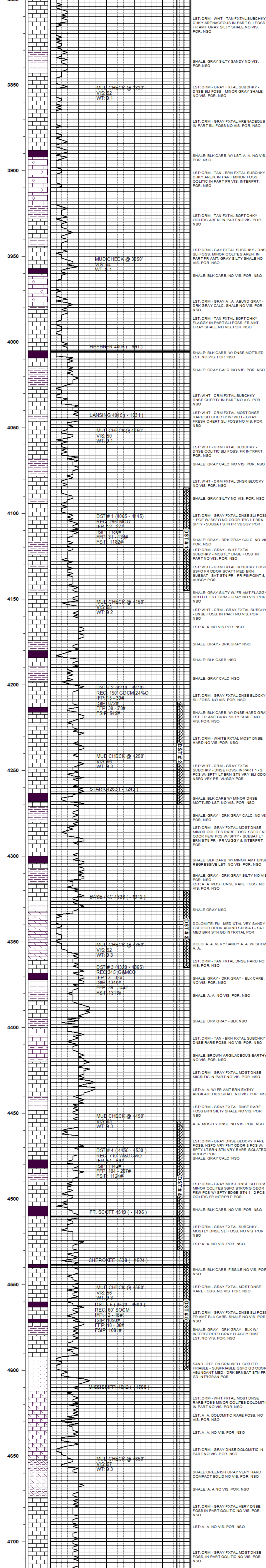
Time	Orifice	PSI	MCF/D
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KEVIN L. KESSLER

CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING CO. INC.		ELEVATION	
LEASE : WEILAND-CMB UNIT	WELL # : 1 - 4	KB: 3014'	
LOCATION : 1950' FNL & 2623' FWL		GL: 3002'	
SEC : 04	TWP : 11 S	RGE : 31 W	MEASUREMENTS FROM:
COUNTY : GOVE	STATE : KANSAS		KB
CONTRACTOR: DUKE DRILLING RIG #1		CASING RECORD:	
COMM: 03 - 09 - 2018	COMP: 03 - 20 - 2018	SURFACE:	
RTD: 4725'	LTD: 4721'	8 5/8" @ 267'	
GEOLOGICAL SUPERVISION FROM: 3800'		PRODUCTION:	
SAMPLES SAVED FROM: 3800'		5 1/2" @ 4725'	



COMMENTS : 5 1/2" PRODUCTION CASING WAS SET TO FURTHER EVALUATE THE PRODUCTIVITY OF THIS WELL

NOTE: DRILLING MEASUREMENTS WERE OFF BY AN AVERAGE OF 14' ERROR OCCURRED WHEN RIG WAS DRILLING OUT FROM UNDER SURFACE DRILL TIME AND DST INTERVALS WERE ADJUSTED ACCORDINGLY TO RECONCILE THE ERROR

KEVIN L. KESSLER