

	Compan Lease: H	y: Richla lillery #1	n Dri	lling	Cc Sta Dr Riq Ele Fie Pc	EC: 19 TWN: 15S punty: LOGAN ate: Kansas illing Contractor: g 10 evation: 3136 EG eld Name: Wildca pol: WILDCAT b Number: 167	WW Drilling, LLC - L
DATE	DST #2	Formation: La C	Insing	Test Interva 405		Total Depth:	4052'
June 10 2018		ne On: 10:32 06/1 ne On Bottom: 13		-	17:56 06/10 Bottom: 15:4		
<u>Recovered</u>	_						
Foot BBLS		cription of Fluid		<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	Mud %
242 2.36993		HMCW		0	0	65	35
63 0.3099	Ő	SLMCW		0	0	91	9
Total Recovered: 30 Total Barrels Recove		77 Reversed NO	Out		Recove	ery at a glance	
Initial Hydrostatic Press	sure 1894	4 PSI					
Initial F	Flow 8 to 9	91 PSI	BBL	1			
Initial Closed in Press	sure 1108	B PSI					
Final Flow Press	sure 93 to ²	141 PSI					
Final Closed in Press	ure 1114	4 PSI		0			
Final Hydrostatic Press	ure 187	4 PSI		I		Recovery	
Tempera	ture 115	°F		🛑 Gas	• Oil	🔵 Water 🛛 🔵	Mud
Pressure Change Ir Close / Final C) %		0%	0%	68.01%	31.99%



Company: Richlan Drilling Lease: Hillery #1

SEC: 19 TWN: 15S RNG: 34W County: LOGAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 10 Elevation: 3136 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 167

DATE June 10	
2018	
REMARKS:	

If:wsb built to 7.1" in 30min lc:nobb Ff:wsb built to 9" in 45min Fc:nobb

Tool sample: 95w - 5m

Ph: 7

RW: .29 @ 100 degrees F

Chlorides: 16000 ppm

DST #2 Formation: Lansing С

Time On: 10:32 06/10

Test Interval: 4020 -4052'

Total Depth: 4052'

Time Off: 17:56 06/10 Time On Bottom: 13:00 06/10 Time Off Bottom: 15:45 06/10



Company: Richlan Drilling Lease: Hillery #1

SEC: 19 TWN: 15S RNG: 34W County: LOGAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 10 Elevation: 3136 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 167

DATE	
June	
10	
2018	

DST #2	Formation: Lansing C	Test Interval: 4020 - 4052'	Total Depth: 4052'
	Time On: 10:32 06/10	Time Off: 17:56 06/10	
	Time On Bottom: 13:00 06/10	Time Off Bottom: 15:45	06/10

Down Hole Makeup

Heads Up:	9.34 FT	Packer 1:	4015 FT
Drill Pipe:	3825.85 FT	Packer 2:	4020 FT
ID-3 1/2		Packer 3:	4052 FT
Weight Pipe: ID-2 7/8	FT	Top Recorder:	4007 FT
Collars:	178.33 FT	Bottom Recorder:	4024 FT
ID-2 1/4		Below Straddle Recorder:	4053 FT
Test Tool:	26.16 FT	Well Bore Size:	7 7/8
ID-3 1/2-FH		Surface Choke:	1"
Total Anchor:	32	Bottom Choke:	5/8"
Anchor Packer Sub:	<u>Makeup</u> 1 FT		
Perforations: (top): 4 1/2-FH	3 FT		
Change Over:	FT		
Drill Pipe: (in anchor): ID-3 1/2	FT		
Change Over:	FT		
Perforations: (below): 4 1/2-FH	28 FT		
	DDLE		
Straddle Packer(s):	FT		
Change Over:	FT		
Drill Pipe: ID-3 1/2"	FT		
Change Over:	FT		
Perforations (in tail pipe): 4 1/2-FH	FT		

Pesting like	Compan Lease: F	y: Richlan Dr Iillery #1	IIIING Co St Dr Ri El Fie Po	EC: 19 TWN: 15S RNG: 34W bunty: LOGAN ate: Kansas illing Contractor: WW Drilling, LLC - g 10 evation: 3136 EGL eld Name: Wildcat bol: WILDCAT b Number: 167
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10	Tir	me On: 10:32 06/10	Time Off: 17:56 06/10)
2018	Tir	me On Bottom: 13:00 06/10	Time Off Bottom: 15:	45 06/10
		Mud Prope	rties	
Mud Type: Chemical	Weight: 8.9	Viscosity: 50	Filtrate: 8.0	Chlorides: 2400 ppm

EIII0/	
resting W	

Company: Richlan Drilling Lease: Hillery #1

SEC: 19 TWN: 15S RNG: 34W County: LOGAN State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 10 Elevation: 3136 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 167

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2018	Tin	ne On Bottom: 13:00 06/10	Time Off Bottom: 15:4	5 06/10

Gas Volume Report

1st Open			2nd Open				
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D