

Operation Pressures	by the second se	nc.	v: Ritchie E nderson-S	-	ON, Col Sta Dril Rig Ele Fie Poo		WW Drilling, LLC - L
DATI	E	DST #3	Formation: Pawne	e Test Interv 45		Total Depth: 4	4500'
March							
08			e On: 19:58 03/08	_	04:57 03/09		
2019		TIM	e On Bottom: 23:02	03/08 Time Oπ	Bottom: 02:0	2 03/09	
Rec	overed						
Foot	BBLS	Desc	<u>iption of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
105	1.49415		G	100	0	0	0
2	0.02846		0	0	100	0	0
25	0.297934	9 SL	WCHOCM	0	37	7	56
60	0.2952	SL	OCSLWCM	0	4	7	89
60	0.2952	SL	OCHWCM	0	8	34	58
60	0.2952	SL	OCSLMCW	0	5	82	13
Total Recove Total Barrels	-	ft red: 2.706144	19 Reversed Out NO		Recove	ry at a glance	
Initial Hydro	static Press	ure 2116	PSI	1			
	Initial FI	ow 11 to 7	0 PSI	BBL			
Initial Close	ed in Pressu	ire 639	PSI				
Final Flow Pressure		ure 76 to 10)9 PSI	0			
Final Closed in Pressure		ire 638	638 PSI			Recove	ry
Final Hydros	static Pressu	re 2116	PSI				7
	Temperati	ure 127	°F	•	Gas 55.21%		ater Mud 1.19% 23.62%
Pressure	Change Ini	tial 0.1	%				
	se / Final Clo			GIP cubic foot	: volume: 8.38	891	



Company: Ritchie Exploration,

Lease: Anderson-Schwartz

Trust #1

Inc.

SEC: 32 TWN: 19S RNG: 30W County: LANE State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 12 Elevation: 2927 EGL Field Name: Sutton Township Pool: Infield Job Number: 312

Uploading recovery &	
pressures	

Operation:

DST #3

Formation: Pawnee

Test Interval: 4477 -4500'

Total Depth: 4500'

Time On: 19:58 03/08

Time Off: 04:57 03/09 Time On Bottom: 23:02 03/08 Time Off Bottom: 02:02 03/09

BUCKET MEASUREMENT:

<u>DATE</u>

March

08

2019

Diesel in Bucket 1st Open: Surface blow building to 6" 1st Close: No BB 2nd Open: Surface blow building to 7 3/4" 2nd Close: Surface BB

REMARKS:

Tool Sample: 0% Gas 10% Oil 72% Water 18% Mud

Ph: 7.5

Measured RW: .35 @ 68 degrees °F

RW at Formation Temp: 0.196 @ 127 °F

Chlorides: 69,000 ppm



Operation:

pressures

Company: Ritchie Exploration, SEC: 32 TWN: 19S RNG: 30W County: LANE

Inc.

Lease: Anderson-Schwartz

Trust #1 Uploading recovery &

State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 12 Elevation: 2927 EGL Field Name: Sutton Township Pool: Infield Job Number: 312

<u>DATE</u>	
March	
08	
2019	

DST #3 **Formation: Pawnee** Test Interval: 4477 -4500'

Total Depth: 4500'

Time On: 19:58 03/08 Time On Bottom: 23:02 03/08 Time Off Bottom: 02:02 03/09

Time Off: 04:57 03/09

Down Hole Makeup

Heads Up:	9.040000000001 FT	Packer 1:	4472 FT
Drill Pipe:	4267.26 FT	Packer 2:	4477 FT
ID-3 1/2		Top Recorder:	4461.42 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4479 FT
Collars:	186.21 FT	Well Bore Size:	7 7/8
ID-2 1/4	100.2111	Surface Choke:	1"
Test Tool: ID-3 1/2-FH	33.57 FT	Bottom Choke:	5/8"
Jars Safety Joint			
Total Anchor:	23		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	0 FT		
Change Over:	0 FT		
Drill Pipe: (in anchor): ID-3 1/2	0 FT		
Change Over:	0 FT		
Perforations: (below): 4 1/2-FH	22 FT		

Operation: Uploading recovery & pressures	Inc.	y: Ritchie Exp nderson-Schv	Noration, Co St Di Ri Nartz Fi Po	EC: 32 TWN: 19S RNG: 30W bunty: LANE ate: Kansas iilling Contractor: WW Drilling, LLC - g 12 evation: 2927 EGL eld Name: Sutton Township bol: Infield b Number: 312
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2019	Tim	e On Bottom: 23:02 03/08	Time Off Bottom: 02:	02 03/09
		Mud Proper	ties	
Mud Type: Chemical	Weight: 9.3	Viscosity: 53	Filtrate: 7.2	Chlorides: 4,000 ppm

Operation: Uploading recovery & pressures	Inc.	y: Ritchie Ex		Cour State Drillin Rig 1 Eleva Field Pool	: 32 TWN: 19S RNG: 30W hty: LANE e: Kansas ng Contractor: WW Drilling, LLC - 12 ation: 2927 EGL I Name: Sutton Township : Infield Number: 312
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Gas Volume Report

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