### KOLAR Document ID: 1463343

Confiden	tiality Re	quested:
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	& I FASE
	III JIONI	- DESCRIF HOR		a LLASL

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:      Dual Completion Permit #:	Dewatering method used:
Dual Completion         Permit #:           SWD         Permit #:	
EOR         Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	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:										

### KOLAR Document ID: 1463343

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

**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 (Attach Additional Sh	eets)	Y	es 🗌 No			og Formatio	n (Top), Depth	and Datum	Sample		
Samples Sent to Geolog	*		és 🗌 No	Ν	lame	e		Тор	Datum		
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		ies No ies No ies No									
		Repo	CASING I		] Ne	w Used rmediate, productio	on, etc.				
Purpose of String	Size Hole Drilled		ze Casing tt (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD					
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks Used	k		Type and	Percent Additives			
Protect Casing Plug Back TD Plug Off Zone											
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the is</li> <li>Was the hydraulic fractu</li> <li>Date of first Production/Inj</li> </ol>	total base fluid of the h ring treatment informa	nydraulic fra tion submit	acturing treatment	al disclosure regis	-	Yes ns? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three			
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>				
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water Bbls. Gas-Oil Ratio Gravi						
DISPOSITION	I OF GAS:		M	ETHOD OF COM	<b>IPLE</b>	TION:			ON INTERVAL:		
Vented Sold (If vented, Subm	Used on Lease		Open Hole		-		mingled	Тор	Bottom		
	oration Perfora Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze			
TUBING RECORD:	Size:	Set At:		Packer At:							

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	ANDERSON-SCHWARTZ TRUST 1
Doc ID	1463343

### 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	12.25	8.63	23	220	Common	165	3% cc, 2% gel
Production	7.88	5.5	15.5	4714	Common		10% salt, 2% gel, 1/2% Halad 322 & 5#/sack gilsonite



### **#1 Anderson-Schwartz Trust**

107' FNL & 775' FWL 123' N & 115' E of N/2 NW NW Section 32-19S-30W Lane County, Kansas API# 15-101-22621-0000 Elevation: GL: 2,927', KB: 2,935'

			Ref.
Sample Tops			Well
Anhydrite	2248'	+687	+1
B/Anhydrite	2265'	+670	+2
Stotler	3541'	-606	+16
Heebner	3940'	-1005	+7
Toronto	3954'	-1019	+6
Lansing	3986'	-1051	+7
Muncie	4170'	-1235	+2
Stark	4276'	-1341	+9
Hush	4317'	-1382	+6
BKC	4360	-1425	+1
Marmaton	4391	-1456	+4
Altamont	4404	-1469	+5
Pawnee	4488	-1553	-1
Myrick Station	4516	-1581	Flat
Ft. Scott	4530	-1595	Flat
Cherokee	4550	-1615	+3
Johnson	4592	-1657	+1
Mississippian	4616	-1681	+3
Spergen	4643	-1708	+5
RTD	4725	-1790	

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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.

### TERMS AND CONDITIONS

#### ATTENTION: THESE TERMS AND CONDITIONS CONTAIN INDEMNITY PROVISIONS FOR DAMAGE TO PERSONS AND PROPERTY.

All Schules to Products provided by OES Pressure Pumpting LEC (0)/a Conjudided OJ Well Sendors LLC) are subject to these Terms and Conditions unless superseded by a Master Sendor Agreement signed by the parties, in the event Customer does not accept these Terms and Conditions as withen. Customer must request a Master Sendor Agreement from OES' Combacts Africabation Department a <u>məəfi qəsip con</u>c

The operators sources supplies indexed a personal organization provided ("support or Biologis" is applicitly by GES Pressue Pengling 110 ("GES") when provided to you as constant ("Gyganisst") is a secondary with the Source planes and constants ("Biologis"). OES and to serve party be referred to as "Party" or Partons".

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b) EXCEPT FOR THE WARRANTIES EXPRESSEY STATED ABOVE, THERE ARE NO OTHER WARRANTIES. THE PARTIES EXPRESSEY EXCLUDE AND CUSTORER WAVES ANY 1994/ED WARRANTY OF MERCHANTABLERY OR FURESS FOR A PARTICULAR PURPOSE.

(1) IN NO EVENT WILL DES' ENTIRE HABBITY (2) TORT, CONTRACT, WARRANTY, INFRINGEMENT OR OTHERWISET TO CUSTOMER EXCEED THE PURCHASE PRICE ACTUALLY PAID BY CUSTOMER FOR THE SERVICES OR PRODUCTS THAT GWE RISE TO A DISPUTE THIS PROVISION WILL SURVICE ANY TERMINATION OF THIS AGREEMENT.

9 INCEDENTICATION AND WAVER OF CONSEQUENTIAL DAMAGES 9.1Extransposed to Section 9, 26 knowny definitions will oppy "DES Mong" masses GCS Pressure Pumping LLC, 25 ganed company, and official companies, and 26 and 56 a subbalana and n Pava.

9.2 <u>OES INDEWNITY</u>, DES AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY NEW AND CHARACTER, ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF EORA YINDRY, ILLIESS, OR DEATH OF ANY MEMBER OF OES GROUP OR, DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF GES GROUP.

9.3 CUSTOMER INDEMNITY, CUSTOMER AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS DES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KND AND CHARACTER, ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF BODA, YUNDAY RLINESS, OR DEATH OF ANY MEMBER OF CUSTOMER GROUP GR DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF CUSTOMER GROUP.

9.4<u>WELL</u> CUSTOMER WILL RELEASE, FROTECT, DEFEND, AND INDEMNIFY DES GROUP FROM AND AGAINST ALL CLAIMS, DEMAIDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER IN THE EVENTS OF: (I) LOSS OR DAMAGE TO MY GEOLOGICAL FORMATION, STRATA OR ON, OR GAS RESERVORS OR MINERAL OR WATER RESOURCE BENEATH THE SURFACE OF THE LAND OR WATER, (II) LOSS OR DAMAGE TO THE NOLE OR WELL, (III)

MPAIRMENT OF PROPERTY RIGHTS OF OTHER INTERESTS IN OR TO OR, GAS, MIÑERAL GR WATER RESOURCES, AND IN/ REGUINING CONTROL OF ANY WILD WELL OR OHT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK, DEBRIS, EQUIPMENT, AND HAZAROOUS MATERIALS AND REMEDIATING ENVIRONMENTAL DAMAGE.

9.5 POLLUDON <u>RESTORSIBUTY</u>, Subject to paragraphy 9.2 and 9.3, A la understood and agreed between Guiltonui and DEB Unit light exponence by the postulion that he as follows. (b) GES WAL, ASSUME RESPONSIBUTY FOR CONTROL AND REMOVAL OF AND WALL PROTECT, DEFEND AND INCENTRY CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY MIND OF CHAMACTER ARISENS FROM POLLUDOIN OR CONTAMINATION WHICH ORDERVATES ADOVE THE SUPERACE OF THE LAND OR WATER FROM THE EQUIPMENT OF ANY MEMBER OF GES GROUP MAINTAINED IN GES OR WATER FROM THE EQUIPMENT OF ANY MEMBER OF GES GROUP MAINTAINED IN GES OROUPS' CARE, CUSTODY AND CONTROL. AND ARISING FROM THE PERFORMANCE OF THE

SERVICES. (b) CUSTOMER WALLASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WAL PROTECT, DEFEND AND INCEPTINEY GES GROUP STOM AND AGAINST ALL CLAMS, DEMANDS AND CAUSES OF ACTION OF EVERY KND AND CHARACTER ANSING FROM POLLINION OTHER THAN THAT DESCRIBED IN SECTION 9 SIA ABOVE, WHICH MAY OCCUR DURING THE CONDUCT OF OPERATIONS INFRUMENER, INCLUDING BUT NOT LIMITED TO, POLLUTION RESULTING FROM THE, BLOYOUL, CRATERING, SEEPAGE OR OTHER UNCONTROLLED FLOW OF OS, GAS OR OTHER SUBSTANCE

9.6 WAVER OF CONSTQUENTIAL DAMAGES. ROTWITHSTANDING ANY PROVISION TO THE CONTRARY CUSTOMER AND OES FURTHER AGREE THAN NETHER PARTY WELDE LUARLE TO THE OTHER OF EACH OTHER'S EESPECTIVE GROUP FOR ANY CONSEQUENTIAL INCOMENTAL OR PUBLICAT DAMAGES, INCLUDING UUT NOT LEMED TO, LOSS OF FRODUCTION, REVENUE, OR ATHICPATED BUSIESS (LOSSE), CUSTOVER AGREES TO PRODUCTION, REVENUE, OR ATHICPATED BUSIESS (LOSSE), CUSTOVER AGREES TO BREMITY AND NOT DOES GROUP HARMLESS FROM AND AGAINST MY AND ALL CLAWS FOR SUCH LOSSES ASSERTED BY MEMORY OF CUSTOMER GROUP, GES AGREES TO ROEMMAFY AND INCID CUSTOVER GROUP HARMLESS FROM AND AGAINST MY AND ALL CLAWS FOR SUCH LOSSES ASSERTED BY MEMORY OF ORS GROUP.

97 EXCEPT AS OTHERWISE EXFRESSLY LIMITED BY THE AGREENENT OR BY LAW. ML RELEASES, BIOEMMITY OBLIGATIONS AND OTHER LIABILITIES ASSUMED UNDER THIS AGREENENT WIL DE WITHOUT LIABIT AND WITHOUT REGARD TO THE CAUSE OR CAUSES INCLUDING, WITHOUT LIABITATION, PREEXISTING COMPRENS, UNSEAWORTHINESS, STRUCT LIABILITY, WALFUL MISCONDUCT, AND THE SOLE, JOINT, GROSS, OR CONCURRENT REGISTICE OF ANY PARTY.

9.6 Each Party hersonder agrees to support the indemnity obligations with liability initiance coverage with limits of liability not here than ten mittion dottars (10,000,000). It is the express infendion of the Parties that high indomnities contained listen apply to the futures tests parallele by applicable has and in the express by applicable has and in the event with a Party's informity obligation to be lighted by the amount of bitransec carded by each Party.

#### THES SECTION & WALL SURVIVE THE TERMINATION OR EXPIRATION OF THIS AGREERENT

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13 <u>Intercention Constraints</u>, OES will be in Vehicenteen under the Antonia Services preferences and methial QES from physical process of the Service of Krates parts to the Weinforce and a strength bindeed test and at representation of Ocenteer.

14. <u>ಕ್ಷೇಲ್ಲಾಪ್ಟೆಯ್ರೆ</u>, ಟ್.ಕಿ.ಎ. ಪ್ರಾಕರ್ ವರ್ಧ್ಯ ಭಾನವಾದ ಲ್. ಪ್ರತ ಸ್ವಿಯಾಗಲು ಎ. ಪದ್ರಾಪ್ತಿತಂತೆ ಸಾರ್ದಿಕ್ ಯಾಸರ್ಕ್ ಟಿ.ಕಿ.ಎ ಪ್ರಾಧಿಪರ್ಧ ಟ್ರಸ್ಟ್ರಿಯೇ ದಾಜ್ಯಾಗಿಪ್ರವ್ಯ ಕ್ಷೇತ್ರಿ ಭಾನವಾದ ಸಾಧಿಯ ದೇಶಗಳಿಗೆ ಮರೆಗಳು ಪ್ರತಿ ಕಾರ್ಯಗಳು, ನನನ ರಿ. ದರ್ಶ್ಯಾ, ತಿಂಗ್ರೆ ಕೆ.ಕೆ. ಭಾನವಾದ್ಯ ಶಿಂಗತ ಕ್ರಿಯಾಗಲಿಗೂ 54 ಗ್ರಾಹಕಾ ಕಾರ್ಟಿಕೆ ಗ್ರಾಹಿ ಸಾಧಿಗಳು

15 Willing, A value on the field of before Party of any brusch of any terms providen ne constrained with a Agreement with advected to proceeders and not feed only of Party Instatute a warve of any score each g a other breach of the scores or any other term providen as conserved the Approximate.

10 Entry Agreement. This Appendix contains the initial agreement of the Parties with report to the webper matter based and supercoders are price and sen within processes of contacts, representational webper particle and sen within processes (contacts, representational agreement, total agreement, and sen within agreement within a fractional agreement of the webper particle and sen within agreement. The animal remains a fractional agreement within a fraction and the sen of the sentence of the effective set of the sentence. The animal remains and contact of the sentence of the effective sets of an interference agreement, and the article agreement within agreement within agreement within agreement and the agreement and the sentence of the se

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DATE 3/15/19 TICKET NO. PAGE NO. SWIFT Services. Inc. JOB LOG LEASE Anderson Schwartz Time Long String Ritchie Exploration WELL NO. 032138 PRESSURE (PSI) IBING CASING DESCRIPTION OF OPERATION AND MATERIALS RATE (BPM) VOLUME (BBL) (GAL) PUMPS CHART TIME NO. TC TUBING On Location 51/2" 15.516 RTD: 4725' LTD: 4725' TP: 4714' PC: #60 2240 0230 Turbo 1, 2, 3, 4, 5, 7, 8, 10, 13, 59, 61 Baskets: 5, 60 [clamped], 80,97 Start 5/2 15.5 Casing in well 0446 Drop ball - Circulate 0740 Pump 500 gal Mud Flush Pump 20 bbl KCL Flush 6/2 0840 61/2 Plug RH [30 sks] 为 0910 Mix 175 sks of Standard 2% gel, 10% Salf, Ya% Habd 329, 5 gilson to CMT@14.98 PPg 0915 4/2 44 1 Wash Pump + Lines Release latch clown Plug 0935 0940 6%a 200 Start Displacement 400 Lift Pressure  $\mathcal{O}$ 61/a 87 800 Max Lift Pressure 61/2 111 6k 1600 Land Latch down Plug 1000 112 Release Pressure & Plug Holet Wash-up Trk Job Complet 205 sks Standard 24 gef 10% Sall 1/20 Halad 322, 5# gilsante Used - Thank Via Gickon, Preston, Kirby 1020 ¢.

			V			Juleon Julis	
Thank You!					APPROVAL	APPI	SWIFT OPERATOR
	on this ticket.	ind services listed	pt of the materials a	wledges receip	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.	CUSTOMER ACCEPTANCE OF MATERIA	
1918 59	TOTAL	D NO SH TO RESPOND				7-2019 TIME SIGNED DAM.	DATE SIGNED 3-19-2019
483 69	Lune 15/10		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	WE OPERATED THE AND PERFORMED JI CALCULATIONS SATISFACTORILY?	P.O. BOX 466 NESS CITY, KS 67560		MUST BE SIGNED BY CL START OF WORK OR DE
0435790	FUT 201		UT DELAY?	MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHO	SWIFT SERVICES, INC.	LIMITED WARRANTY provisions.	LIMITED WARRANTY provisions.
115 10	PAGE TOTAL		EPFORMED	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	REMIT PAYMENT TO:	LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not include to be added to be a	LEGAL TERMS: the terms and cond
11841	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	- []	SIBVEY NOTE	2	Diayage		589
7875	<u><u>S</u></u>	400 sizes			CMTT Service Charge		581
168,000	-an Ch	Had	·			<b></b>	290
30 100	-20, <u>ce</u>	i sks			Cotton Seed Hulls		376
		SAS NEC	-	Ý	WHU YOZ MIX XX get		0-LAN
Sm. 00	0	2100		0	c		0-002
300	1300 000	doc 1		•	5		5%0
26/136	500	50 mi			MILEAGE TTE #112		575
AMOUNT	PRICE	QTY. U/M	QTY. U/M		DESCRIPTION	SECONDARY REFERENCE/ ACCOUNTING PART NUMBER LOC ACCT DF	PRICE
	9.	2				INVOICE INSTRUCTIONS	REFERRAL LOCATION
-5 2%-W	Hrad 1-W 8		WELL PERMIT NO.	- THE REAL PROPERTY AND A DESCRIPTION OF THE REAL PROPERT	WELL CALEGURY JOB PURPOSE		<b>4</b> .
			<u>[] (</u>	Sundary Contraction of the second sec			β 3
OWNER	19-2019		E CITY	STATE	Anderson Schuwdz Tust Lanc		1. Ness City, KS
	PAGE 1				CITY, STATE, ZIP CODE	nc.	Services,
					s Kitchie Explecetion	ADDRESS	
032140	TICKET					CHARGE TO:	CINI

DATE - 19-2019 1 PAGE NO. SWIFT Services, Inc. JOB LOG CUSTOMER WELL NO. JOB TYPE LEASE Ritchie Exdexation Anderson Schwartz Trust Port Cullar 032140 PRESSURE (PSI) TUBING CASING VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS CHART RATE (BPM) PUMPS TIME NO. TC On Location 278" 51/3" 1330 PC:2240' 1200 Pressure test 1436 1/ Open PC Injection Rate 2 5 100 1440 Mix 340 sks of 60/40 Pozmix @ 12.24 ppg w/ 100# of hulls 350 1450 4% 112  $\sqrt{}$ Displace CMT 4% 12 400 1515 Close PC 1525 Run 5 joints 1540 400 Reverse Clean 4/2 28 1545 Wash-up Tick TOH Pressure up Casing to 2001bs & Shut in \* 1600 FD 1700 Job Complete 340 ses of 60/40 Pozmix 8/0 get w/ 100# hulls used 1316 Thanks Gideon Preston, Kirby



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

Well Name:	ANDERSON-SCHWAR	TZ TRUST		
Well Id:	#1			
Location:	107' FNL, 775' FWL, Se	c 32-T19S-R30W, La	ne County, Kans	as
License Number:	API: 15-101-22621		Region:	Lane County
Spud Date:	02/27/2019	Dril	ling Completed:	03/13/2019
Surface Coordinates:	Lat: 38.3657751			
	Long: -100.6644372			
Bottom Hole	Vertical hole			
Coordinates:				
Ground Elevation (ft):	2927'	K.B. Elevation (ft):	2935'	
Logged Interval (ft):	3700' To: RTD	Total Depth (ft):	4725'	
Formation:	Mississippian at RTD			
Type of Drilling Fluid:	Chemical			

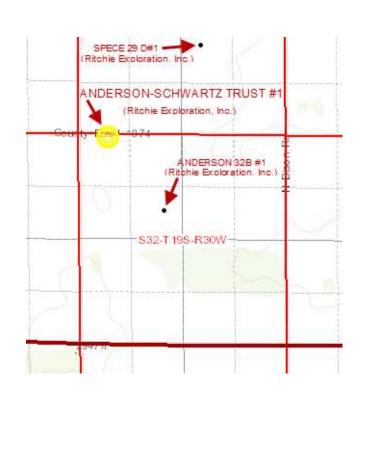
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

### **OPERATOR**

Company: Ritchie Exploration, Inc. Address: 8100 E. 22nd Street N., Bldg 700 Wichita, KS 67226 316-691-9500

### GEOLOGIST

Name: Kent R. Matson Company: Matson Geological Services, LLC Address: 33300 W. 15th Street S. Garden Plain, Kansas 67050 316-644-1975; kent4m@hotmail.com



### COMMENTS

Ritchie Exploration Company Geologist: John Goldsmith, 316-640-0236 (cell).

Contractor: WW Drilling Company, Rig #12. Tool Pusher: Calvin Pfannenstiel, 785-743-8120 (cell).

Surface Casing: 8 5/8" set at 221' (KB) w/165sx cement by QES.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, production casing was installed.

Mud by: Mud-Co/Service Mud, Inc., Reid Atkins, 785-694-3741 (cell).

DST's by: Diamond Testing, Tim Venters, 620-388-6333 (cell).

Logs by: Pioneer (DI w/GR, CND, Micro, and Sonic), Ian Mabb, 785-623-9741 (cell).

RTD= 4725'

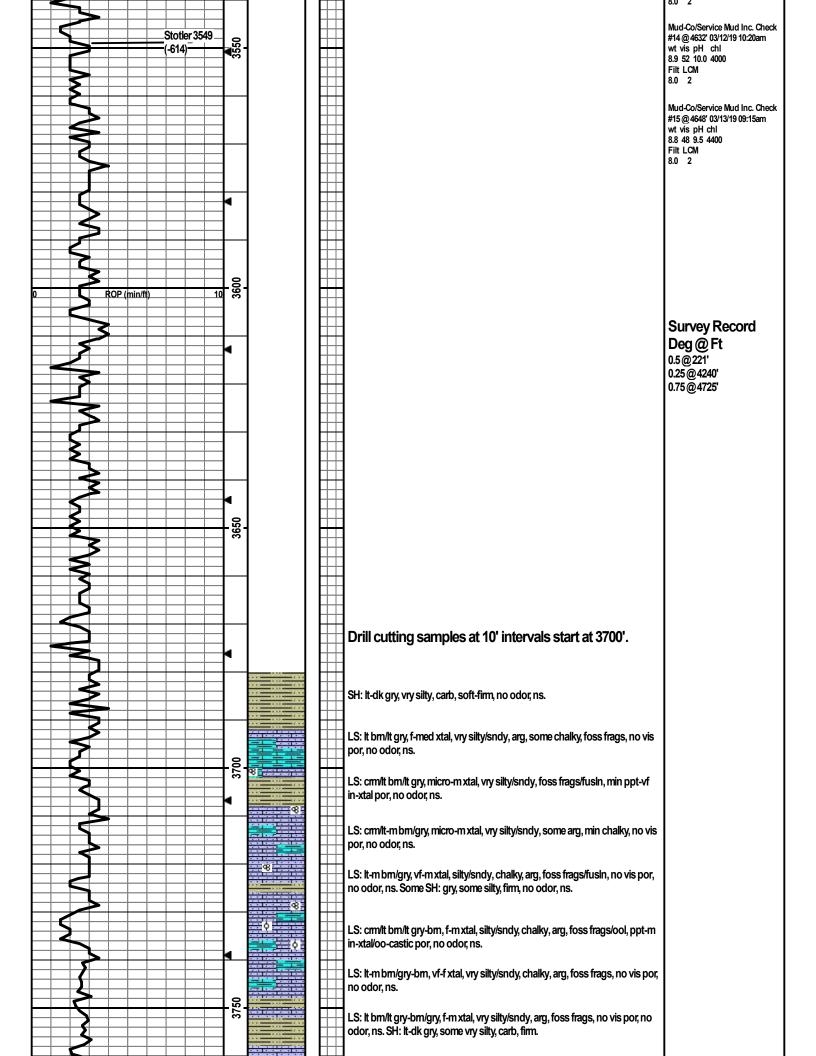
LTD= 4725'

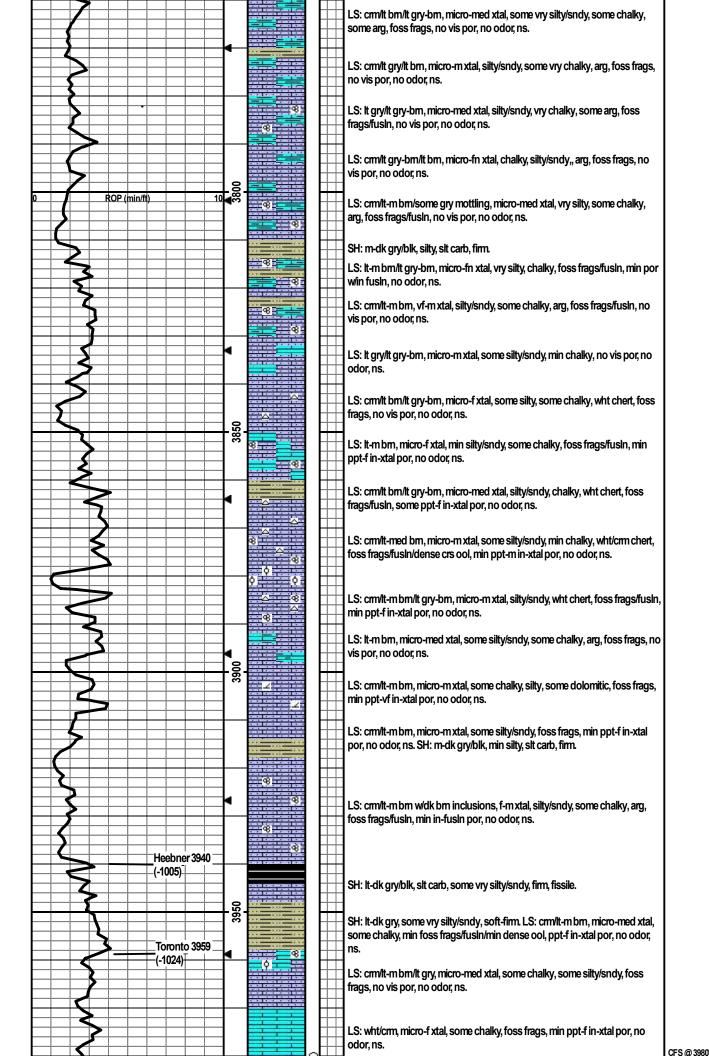
### FORMATION TOPS

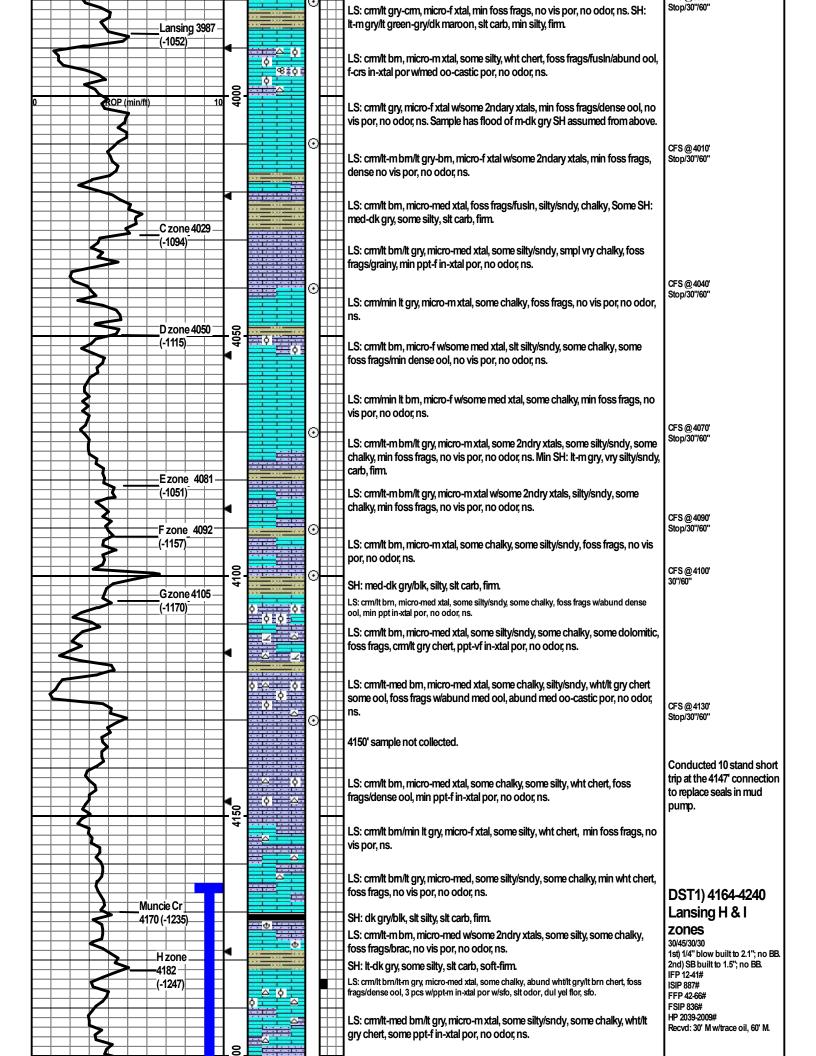
FORMATION	SAMPLE TOPS Depth Datum	LOG TOPS Depth Datum
Stotler	3549' -614	3548' -613
Heebner Shale	3940' -1005	3940' -1005
Lansing	3987' -1052	3988' -1053
Muncie Creek Shale	4170' -1235	4170' -1235
Stark Shale	4276' -1341	4274' -1339
Hushpuckney Shale	4316' -1381	4212' -1377
Base of KC	4360' -1425	4356' -1421
Marmaton	4398' -1463	4395' -1460
Altamont	4412' -1477	4408' -1473
Pawnee Myrick Station Fort Scott	4517' -1582 4531' -1596	4515' -1580 4530' -1595
Cherokee Shale	4551' -1616	4552' -1617
Johnson	4589' -1654	4588' -1653
Mississippian	4616' -1681	4614' -1679
rtd Ltd	4725' -1790	4725' -1790

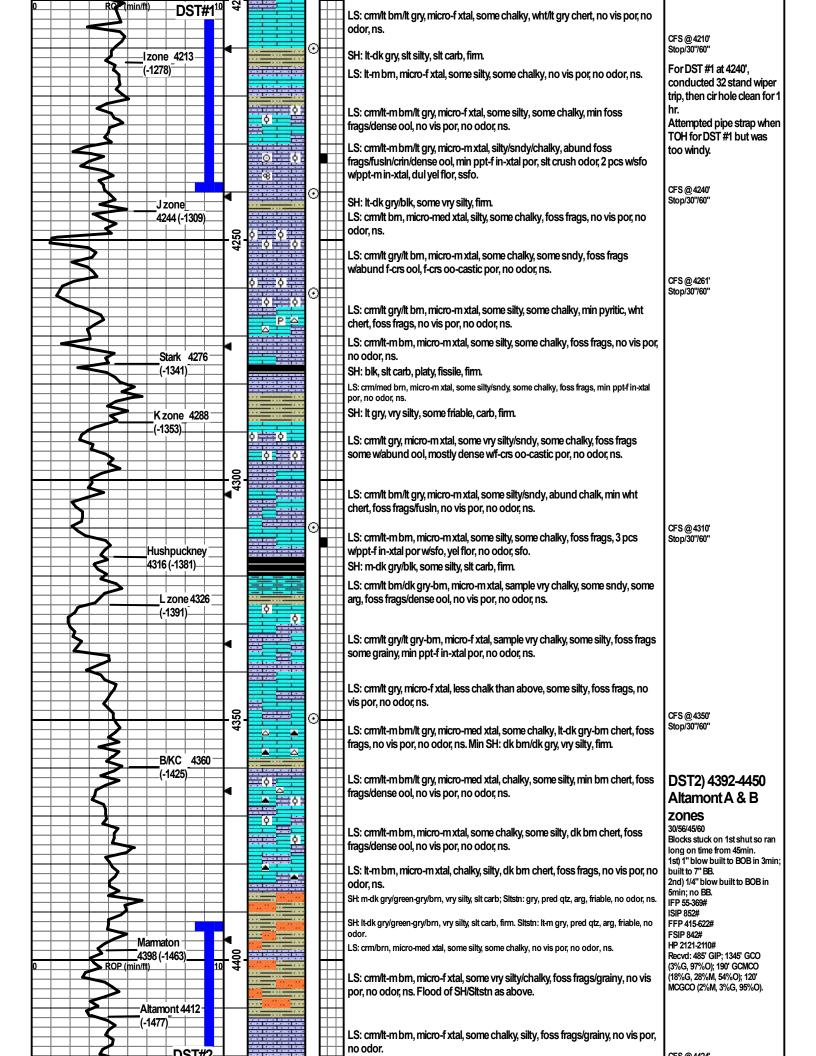
			ROCK TYPES	5		
<u>LITHOLO</u> GY	100 - 100 - 100	Sltysh	0	Ostra	•	Ferrpel
Anhy	- top top	Sdy dolo	4	Pelec	1	Ferr
AAAAA Cht		Silty dolo	ø	Pellet	~	Glau
Coal		Shy dolo	۲ ۵ ۹ ۳	Pisolite	2	Gyp
Ooligi		Shaly Is	2	Plant		Hvymin
Dol	FOSSIL		0	Strom Fuss	11	Kaol Marl
Gyp		Algae	ক	Oomold	*	Minxl
Salt	×	Amph		Comora	■ ● ●	Nodule
Shale	p	Belm	MINER	AL	**	Phos
Shcol	0	Bioclst	11	Anhy	P	Pyr
Shgy	•	Brach		Arggrn	Ξ	Salt
Sltst	۳ م	Bryozoa	-	Arg		Sandy
Ss Ss	ଓ ଜ	Cephal	B	Bent		Silt
Carb sh	6	Coral	a	Bit Dra ofro a		Sil
Dol	0	Crin Echin	8 1	Brecfrag Calc	S	Sulphur Tuff
Gry sh	ø	Fish		Carb	*	Chlorite
Sandylms	98	Foram		Chtdk		Dol
Shale	F Ø	Fossil		Chtlt	1	Sand
SItstn	8	Gastro	$\checkmark$	Dol		Sity
Shlysits	¢	Oolite	+	Feldspar		•

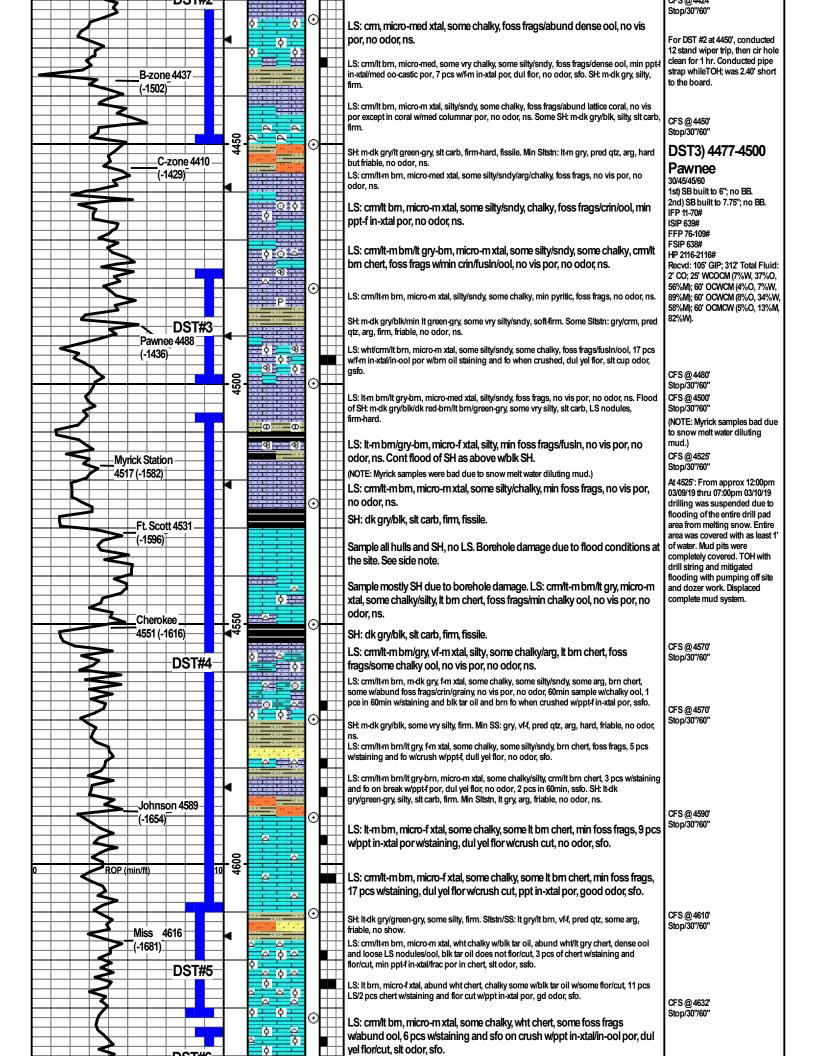
Rat ROP (m	e of P in/ft)	'ene	tratio	on (R	ROP)	_	Depth	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
		Rop (	min/ft	)		10	33				Morning Report Depth/Activity (7:00 am) 02/27/2019, MIRU/Spud. 02/28, drilling @221'.	Mud-Co/Service Mud Inc. Check #1 @0' 02/27/19, predrilling instructions.
											03/01, drilling @ 1541'. 03/02, drilling @ 2703'. 03/03, drilling @ 3275'. 03/04, drilling @ 3707'. 03/05, drilling @ 4086'.	Mud-Co/Service Mud Inc. Check #3 @ 1724 03/01/19 09:40am wt vis pH chl 8.9 30 7.0 320 Filt LCM n/c tr
		ROP (	min/ft	)		10	3400				03/06, DST #1 @4240'. 03/07, drilling @4374'. 03/08, DST #2 @4450'. 03/09, DST #3 @4500'. 03/10, On the bank, depth @4525', working on site flooding problem. 03/11, DST#4 @4610'. 03/12, DST#5 @4632'. 03/13, DST#6 @4648'. TD @4725'. Electric logged.	Mud-Co/Service Mud Inc. Check #4 @ 2813' 03/02/19 10:45am wt vis pH chl 9.6 32 7.0 25000 Filt LCM n/c 2 Mud-Co/Service Mud Inc. Check #5 @ 3295' 03/03/19 08:00am wt vis pH chl 9.2 29 7.0 22000 Filt LCM n/c 2
											Anhydrite: Top @ 2249', Base @ 2265' (based on drill time).	Mud-Co/Service Mud Inc. Check #6@3732 03/04/19 08:00am wt vis pH chl 8.9 48 11.0 2400 Fiit LCM 6.4 3
											Conducted 740 bbls drilling mud displacement @ 3430'-3449'.	Mud-Co/Service Mud Inc. Check #7 @4097' 03/05/19 09:00am wt vis pH chl 9.3 49 10.0 3000 Filt LCM 8.0 2
							3450					Mud-Co/Service Mud Inc. Check #8@4240' 03/06/19 08:00am wt vis pH chl 9.3 48 9.5 4000 Filt LCM 11.2 1
											Control Con	Mud-Co/Service Mud Inc. Check #9@4416'03/07/19 09:40am wt vis pH chl 9.6 47 10.5 3000 Filt LCM 9.6 1
											Formation tops and lithologies have been adjusted to correlate to the electric log.	Mud-Co/Service Mud Inc. Check #10 @ 4450' 03/08/19 07:50am wt vis pH chl 9.3 53 10.5 4000 Filt LCM 7.2 1
Ż							3500				ROP Data began @ 3500' on 03/03/2019	Mud-Co/Service Mud Inc. Check #11 @ 4500' 03/09/19 07:45am wt vis pH chl 9.0 46 10.0 3400 Filt LCM 8.8 2
Ş							4					Mud-Co/Service Mud Inc. Check #12 @ 4525 03/10/19 05:50pm wt vis pH chl 8.6 55 11.0 2500 Filt LCM 7.2 2
S S												Mud-Co/Service Mud Inc. Check #13 @ 4610' 03/11/19 09:15am wt vis pH chl 8.8 58 10.5 3000 Filt LCM

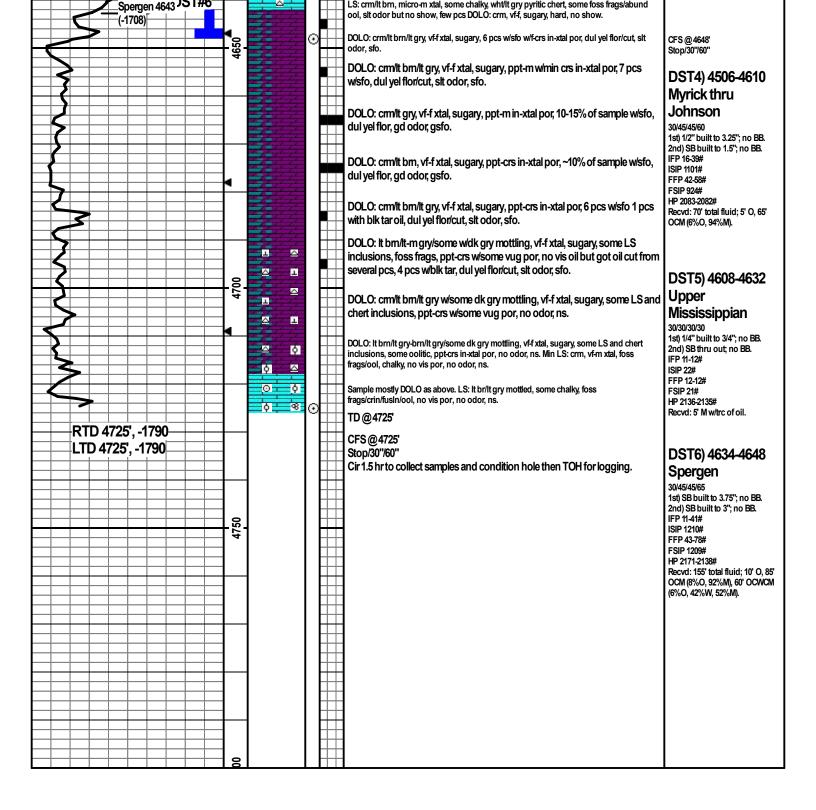


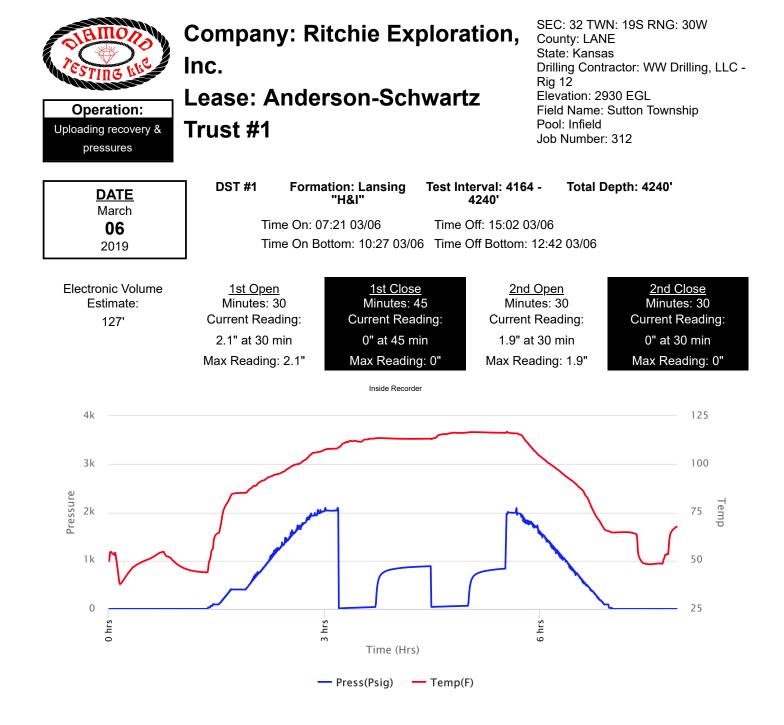












Operation: Uploading recovery & pressures	Inc.	y: Ritchie nderson-S	•	<b>DN,</b> Co Sta Dri Riq Ele Fie Po	C: 32 TWN: 19 ounty: LANE ate: Kansas illing Contractor g 12 evation: 2930 E eld Name: Sutto ol: Infield b Number: 312	r: WW Drilling, LLC - GL		
DATE	DST #1	Formation: Lansi "H&I"	ing Test Interva 424		Total Depth	: 4240'		
March <b>06</b> 2019		e On: 07:21 03/06 e On Bottom: 10:27	Time Off:	15:02 03/06				
Recovered	-							
Foot BBLS	Desc	ription of Fluid	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>		
30 0.147	6 N	/I (trace O)	0	.2	0	99.8		
60 0.295	2	Μ	0	0	0	100		
Total Recovered: 90 Total Barrels Recov		Reversed Out NO		Recove	ry at a glanc	e		
Initial Hydrostatic Pres	sure 2039	PSI	- 0.25					
Initial	Flow 12 to 4	41 PSI	니 0.25					
Initial Closed in Pres	sure 887	PSI						
Final Flow Pres	sure 42 to	66 PSI						
Final Closed in Pres	sure 836	PSI	0		Rec	overy		
Final Hydrostatic Pres	sure 2009	) PSI				,		
Tempera	ature 117	°F		Gas 0%		/ater • Mud % 99.93%		
Pressure Change Close / Final C		%	GIP cubic foot	volume: 0				



pressures

# Company: Ritchie Exploration,

# Lease: Anderson-Schwartz

Uploading recovery &

Inc.

SEC: 32 TWN: 19S RNG: 30W County: LANE State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 12 Elevation: 2930 EGL Field Name: Sutton Township Pool: Infield Job Number: 312

<u>DATE</u> March	
06	
2019	

**BUCKET MEASUREMENT:** 

Diesel in Bucket 1st Open: 1/4" blow building to 2 14" 1st Close: No BB 2nd Open: Surface blow building to 1 12" 2nd Close: No BB

#### **REMARKS:**

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

### Trust #1

**DST #1** Formation: Lansing "H&I"

Time On: 07:21 03/06

Test Interval: 4164 -4240'

Total Depth: 4240'

Time Off: 15:02 03/06 Time On Bottom: 10:27 03/06 Time Off Bottom: 12:42 03/06



## Company: Ritchie Exploration,

# Inc. Lease: Anderson-Schwartz

Trust #1

SEC: 32 TWN: 19S RNG: 30W County: LANE State: Kansas Drilling Contractor: WW Drilling, LLC -Rig 12 Elevation: 2930 EGL Field Name: Sutton Township Pool: Infield Job Number: 312

Total Depth: 4240'

Operation: Uploading recovery & pressures

> DATE March 06

> > 2019

DST #1 Formation: Lansing "H&I" Time On: 07:21 03/06

**4240'** Time Off: 15:02 03/06

Test Interval: 4164 -

Time On Bottom: 10:27 03/06 Time Off Bottom: 12:42 03/06

### **Down Hole Makeup**

Heads Up:	10.68 FT	Packer 1:	4158.84 FT
Drill Pipe:	3955.74 FT	Packer 2:	4163.84 FT
ID-3 1/2		Top Recorder:	4148.26 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4202 FT
Collars:	186.21 FT	Well Bore Size:	7 7/8
ID-2 1/4	100.21 F1	Surface Choke:	1"
Test Tool:	33.57 FT	Bottom Choke:	5/8"
ID-3 1/2-FH			
Jars			
Safety Joint			
Total Anchor:	76.16		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	3 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/2	31.16 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	39 FT		

Operation: Uploading recovery & pressures	Inc.	y: Ritchie Exp nderson-Sch	wartz	SEC: 32 TWN: 19S RNG: 30W County: LANE State: Kansas Drilling Contractor: WW Drilling, LLC - Rig 12 Elevation: 2930 EGL Field Name: Sutton Township Pool: Infield Job Number: 312
DATE March	DST #1	Formation: Lansing "H&I"	Test Interval: 4164 4240'	- Total Depth: 4240'
06	Tir	ne On: 07:21 03/06	Time Off: 15:02 03	/06
2019	Tir	ne On Bottom: 10:27 03/00	6 Time Off Bottom: 1	2:42 03/06
	_	Mud Prope	rties	

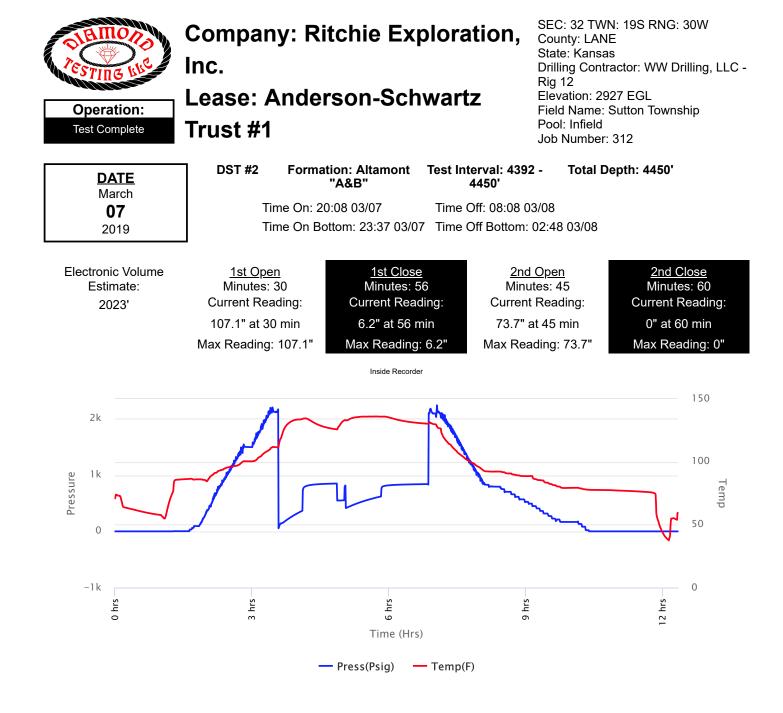
Viscosity: 49 Filtrate: 8.0

Chlorides: 3,000 ppm

Mud Type: Chemical Weight: 9.3

Operation: Uploading recovery & pressures	Inc.	y: Ritchie Exp nderson-Sch		Cour State Drillin Rig 1 Eleva Field Pool	: 32 TWN: 19S RNG: 30W hty: LANE e: Kansas ng Contractor: WW Drilling, LLC - 12 ation: 2930 EGL I Name: Sutton Township : Infield Number: 312
DATE March	DST #1	Formation: Lansing "H&I"	Test Interval: 4164 4240'	1 -	Total Depth: 4240'
<b>06</b>	Tim	e On: 07:21 03/06	Time Off: 15:02 03	3/06	
2019	Tim	e On Bottom: 10:27 03/06	Time Off Bottom:	12:42	03/06
	-	Gas Volume F	Report		

	1st Op	ben			2nd Op	oen	
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D



Operatio Test Complete	n:	Inc.	y: Ritchio	•		DN, C S D R F P	EC: 32 TWN: 1 ounty: LANE tate: Kansas rilling Contract ig 12 levation: 2927 ield Name: Sut ool: Infield ob Number: 31	or: WW Dr EGL ton Townsl	illing, LLC -	
DATE	<u> </u>	DST #2	Formation: Alt "A&B"	tamont	Test Interva 445		Total Dept	th: 4450'		
March	1			07		-				
07			ne On: 20:08 03/0 ne On Bottom: 23		Time Off: (		-			
2019			ne On Bollom: 23	5:37 03/07	Time Off B	ollom: 02	.48 03/08			
Reco	overed									
Foot	BBLS	<u>Des</u>	<u>cription of Fluid</u>		<u>Gas %</u>	<u>Oil %</u>	Water %	<u>%</u> <u>Μι</u>	<u>ıd %</u>	
485	6.9015	5	G		100	0	0		0	
1345	19.1393	35	SLGCO		3	97	0		0	
190	2.08728		SLGCMCO		18	54	0		28	
120 0.5904 SLMCSLGCO				3	95	0		2		
Total Recove Total Barrels	40 ft ered: 28.7185	Out	20	Recov	ery at a glan	ce				
Initial Hydros	static Pres	sure 212	1 PSI							
	Initial F	Flow 55 to	369 PSI	BBL	10					
Initial Close	d in Press	sure 852	2 PSI							
Final	Flow Pres	sure 415 to	622 PSI							
Final Close	d in Press	sure 842	2 PSI		0		Re	Recovery		
Final Hydros	tatic Press	ure 211	0 PSI					- 1		
	Tempera	ture 137	°F		•	Gas 27.4%	• Oil 70.52%	Water 0%	Mud 2.08%	
Pressure	Change Ir	nitial 1.2	2 %							
Close	e / Final C	lose		GIP	cubic foot v	olume: 44/	.18136			



# Company: Ritchie Exploration,

# Lease: Anderson-Schwartz

Trust #1 Test Complete

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

<u>DATE</u> March	
Maron	
07	
2019	

#### **DST #2** Formation: Altamont "A&B"

Test Interval: 4392 -4450'

Total Depth: 4450'

Time On: 20:08 03/07 Time On Bottom: 23:37 03/07 Time Off Bottom: 02:48 03/08

Time Off: 08:08 03/08

### BUCKET MEASUREMENT:

Diesel in Bucket 1st Open: 1 blow building to BOB 3 min. 1st Close: 7. BB 2nd Open: 1/4" blow building to BOB 5 min. 2nd Close: No BB

#### **REMARKS:**

The blocks were stuck so we couldn't turn tool on initial shut-in that's why extra time.

Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud

Gravity: 34.9 @ 60 °F



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

# Lease: Anderson-Schwartz

Test Complete 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

DATE	
March	
07	
2019	

### DST #2 Formation: Altamont "A&B" Test Interval: 4392 -4450' Total Depth: 4450' Time On: 20:08 03/07 Time Off: 08:08 03/08 Time Off: 08:08 03/08 Time On Bottom: 23:37 03/07 Time Off Bottom: 02:48 03/08

### **Down Hole Makeup**

Heads Up:	31.77 FT	Packer 1:	4386.81 FT
Drill Pipe:	4204.8 FT	Packer 2:	4391.81 FT
ID-3 1/2		Top Recorder:	4376.23 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4430 FT
Collars:	186.21 FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH	33.57 FT	Bottom Choke:	5/8"
Jars Safety Joint			
Total Anchor:	58.19		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	3 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/2	31.19 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	21 FT		

Operation: Test Complete	Inc.	y: Ritchie Exp Inderson-Sch		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	
DATE March	DST #2	Formation: Altamont "A&B"	Test Interval: 4392 4450'	2 - Total Depth: 4450'	
07	Tin	ne On: 20:08 03/07	Time Off: 08:08 03	3/08	
2019	Tin	ne On Bottom: 23:37 03/0	7 Time Off Bottom: (	02:48 03/08	
Mud Properties					

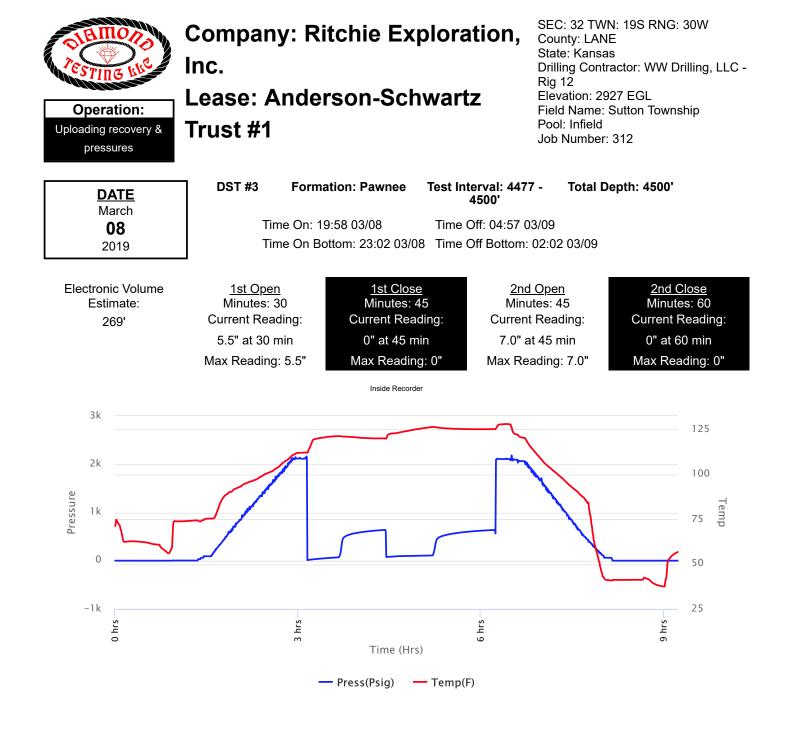
Mud Type: Chemical

Weight: 9.6

Viscosity: 47

Filtrate: 9.6

Chlorides: 3,000 ppm



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>	<u>Water %</u>	<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 Recovered: 312 ft Total Barrels Recovered: 2.7061449							
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 Press	ure 76 to 10	)9 PSI	_			
Final Close	ed in Pressu	ire 638	PSI	0		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



Uploading recovery &

pressures

## Company: Ritchie Exploration,

# Inc.

# Lease: Anderson-Schwartz

Trust #1

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

<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**

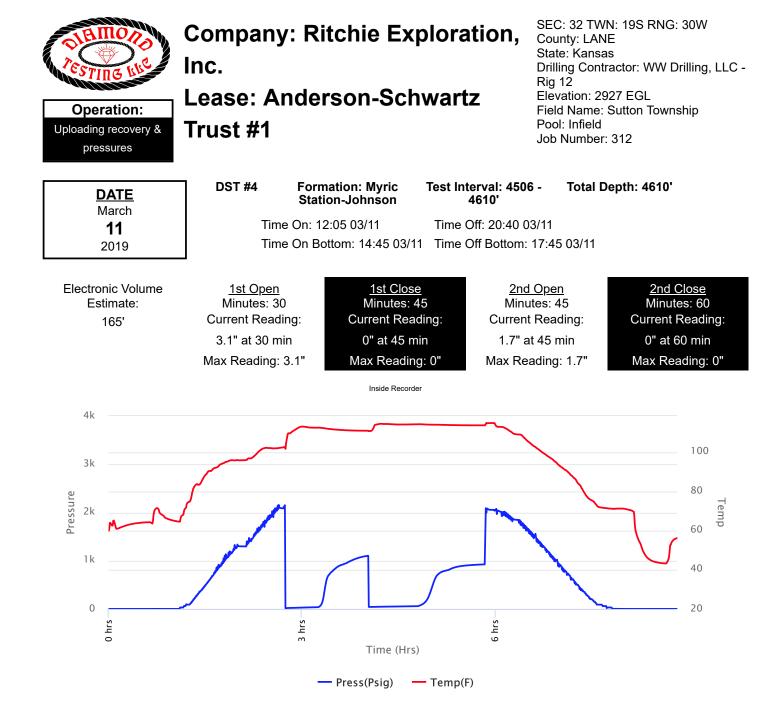
Heads Up:	9.040000000001 FT	Packer 1:	4472 FT
Drill Pipe:	4267.26 FT	Packer 2:	4477 FT
ID-3 1/2		Top Recorder:	4461.42 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4479 FT
Collars:	186.21 FT	Well Bore Size:	7 7/8
ID-2 1/4	100.2111	Surface Choke:	1"
<b>Test Tool:</b> ID-3 1/2-FH	33.57 FT	Bottom Choke:	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
DATE March	DST #3	Formation: Pawnee	- Test Interval: 4477 4500'	Total Depth: 4500'
<b>08</b>	Tim	e On: 19:58 03/08	Time Off: 04:57 03/0	9
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	•	Cou State Drilli Rig Elev Field Pool	2: 32 TWN: 19S RNG: 30W nty: LANE e: Kansas ing Contractor: WW Drilling, LLC - 12 vation: 2927 EGL d Name: Sutton Township l: Infield Number: 312
DATE March	DST #3	Formation: Pawnee	Test Interval: 4477 4500'	<b>'</b> -	Total Depth: 4500'
08	Tim	e On: 19:58 03/08	Time Off: 04:57 03	3/09	
2019	Tim	e On Bottom: 23:02 03/0	8 Time Off Bottom:	02:02	2 03/09

### **Gas Volume Report**

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



Operation: Uploading recovery & pressures	Inc.	r: Ritchie Ex	-	ON, Cou Sta Dril Rig Ele Fie Poo	C: 32 TWN: 19S unty: LANE ite: Kansas lling Contractor: 12 vation: 2927 EG ld Name: Sutton ol: Infield o Number: 312	WW Drilling, LLC -
DATE	DST #4	Formation: Myric Station-Johnson	Test Interv 461		Total Depth:	4610'
March	Time	• On: 12:05 03/11		20:40 03/11		
<b>11</b> 2019		On Bottom: 14:45 03	_	20.40 03/11 Bottom: 17:4	5 03/11	
2019				500011. 17.4	0 00/11	
<u>Recovered</u>						
Foot BBLS		iption of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
5 0.024		0	0	100	0	0
65 0.319	98	SLOCM	0	6	0	94
Total Recovered: 70 Total Barrels Recov	• • • •	Reversed Out NO		Recove	ry at a glance	
Initial Hydrostatic Pre	ssure 2083	PSI	0.2			
•	Flow 16 to 3		BBL			
Initial Closed in Pres	ssure 1101	PSI				
Final Flow Pre	ssure 42 to 5	8 PSI				
Final Closed in Pres	ssure 924	PSI	0		Recov	
Final Hydrostatic Pres	ssure 2082	PSI			Recov	cry
Temper		°F	•		Oil • Wa 12.71% • 0%	ater Mud 6 87.29%
Pressure Change Close / Final		%	GIP cubic foot	volume: 0		

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pressures

## **Company: Ritchie Exploration,**

# Lease: Anderson-Schwartz

Trust #1

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

DATE	
March	
11	
2019	

Uploading recovery &

Inc.

DST #4 Formation: Myric Station-Johnson

Test Interval: 4506 -4610'

Total Depth: 4610'

Time On: 12:05 03/11

Time Off: 20:40 03/11 Time On Bottom: 14:45 03/11 Time Off Bottom: 17:45 03/11

#### **BUCKET MEASUREMENT:**

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

#### **REMARKS:**

Tool Sample: 0% Gas 8% Oil 0% Water 92% Mud



pressures

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

# Lease: Anderson-Schwartz

Trust #1 Uploading recovery &

Inc.

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

Total Depth: 4610'

DATE	
March	
11	
2019	

Formation: Myric Station-Johnson DST #4 Time On: 12:05 03/11 Time On Bottom: 14:45 03/11 Time Off Bottom: 17:45 03/11

4610' Time Off: 20:40 03/11

Test Interval: 4506 -

#### **Down Hole Makeup**

Heads Up:	12.07 FT	Packer 1:	4500.68 FT
Drill Pipe:	4298.97 FT	Packer 2:	4505.68 FT
ID-3 1/2		Top Recorder:	4490.1 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4575 FT
Collars:	186.21 FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
<b>Test Tool:</b> ID-3 1/2-FH Jars	33.57 FT	Bottom Choke:	5/8"
Safety Joint			
Total Anchor:	104.32		
	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	3 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/2	62.32 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	36 FT		

Operation: Uploading recovery & pressures	Inc.	: Ritchie Exp nderson-Sch	·	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
DATE March	DST #4	Formation: Myric Station-Johnson	Test Interval: 4506 4610'	6 - Total Depth: 4610'
11	Time	e On: 12:05 03/11	Time Off: 20:40 0	3/11
2019	Time	On Bottom: 14:45 03/11	Time Off Bottom:	17:45 03/11
	<b>_</b>	Mud Prope	rties	

Viscosity: 58

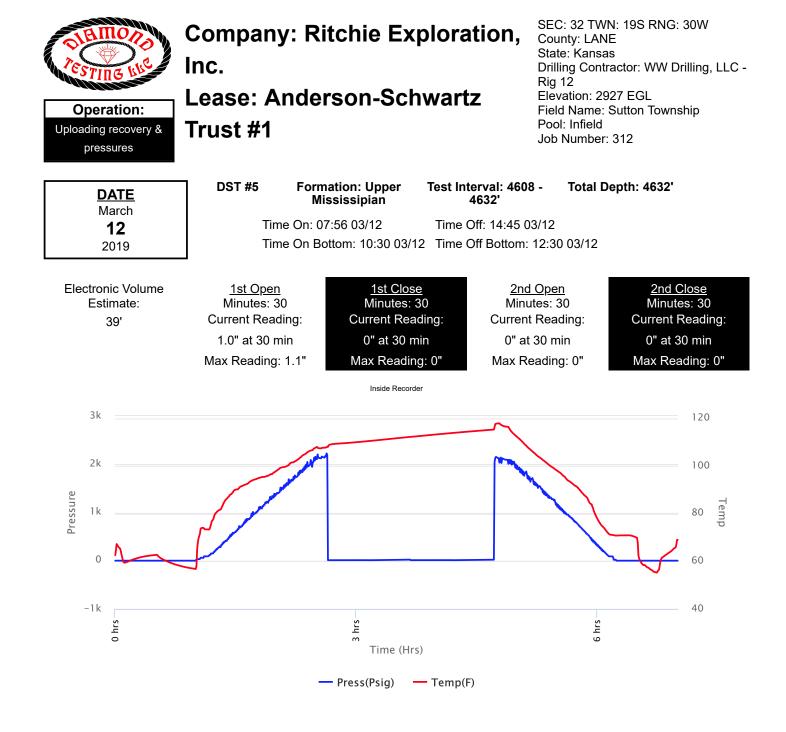
Filtrate: 8.0

Chlorides: 3,000 ppm

Mud Type: Chemical Weight: 8.8

Operation: Uploading recovery & pressures	Inc.	: Ritchie Exp Iderson-Sch		SEC: 32 TWN: 19S RNG: 30 County: LANE State: Kansas Drilling Contractor: WW Drill Rig 12 Elevation: 2927 EGL Field Name: Sutton Townshi Pool: Infield Job Number: 312	ling, LLC -
DATE March	DST #4	Formation: Myric Station-Johnson	Test Interval: 4506 4610'	6 - Total Depth: 4610'	
11	Time	On: 12:05 03/11	Time Off: 20:40 03	3/11	
2019	Time	On Bottom: 14:45 03/11	Time Off Bottom:	17:45 03/11	
	_	Gas Volume F	Report		

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



Operation: Uploading recovery & pressures	Inc.	v: Ritchie Ex	•	ON, Cou Sta Dril Rig Ele Fie Poo	C: 32 TWN: 19S unty: LANE te: Kansas lling Contractor: 12 vation: 2927 EG ld Name: Sutton ol: Infield Number: 312	WW Drilling, LLC - L
DATE	DST #5	Formation: Upper Mississipian	Test Interv 463		Total Depth:	4632'
March 12	Tim	e On: 07:56 03/12	Time Off <sup>.</sup>	14:45 03/12		
2019		e On Bottom: 10:30 03				
2010						
Recovered	_		•	• • • • •		
Foot BBLS		ription of Fluid	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
5 0.024	16 N	l (trace O)	0	.2	0	99.8
Total Recovered: 5 Total Barrels Recov		Reversed Out NO	0.02	Recover	ry at a glance	
Initial Hydrostatic Pre	ssure 2136	PSI	_1			
•	Flow 11 to 1	2 PSI	BB 0.01			
Initial Closed in Pres	ssure 22	PSI	0.01			
Final Flow Pre	ssure 12 to 1	2 PSI				
Final Closed in Pres	ssure 21	PSI	0		Recov	very
Final Hydrostatic Pres	sure 2135	PSI				,
Temper	rature 116	°F		Gas 0%	Oil • Wa 0.2% 0%	
Pressure Change Close / Final		%	GIP cubic foot	volume: 0		

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pressures

## **Company: Ritchie Exploration,**

# Lease: Anderson-Schwartz

Trust #1 Uploading recovery &

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

DATE	
March	
12	
2019	

**DST #5** 

Formation: Upper Mississipian

Test Interval: 4608 -4632'

Total Depth: 4632'

Time On: 07:56 03/12 Time On Bottom: 10:30 03/12 Time Off Bottom: 12:30 03/12

Time Off: 14:45 03/12

#### **BUCKET MEASUREMENT:**

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

#### **REMARKS:**

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



pressures

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

### Inc.

# Lease: Anderson-Schwartz

Uploading recovery & Trust #1

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

Total Depth: 4632'

DATE	
March	
12	
2019	

DST #5 Formation: Upper Mississipian Time On: 07:56 03/12

**4632'** Time Off: 14:45 03/12

Time On Bottom: 10:30 03/12 Time Off Bottom: 12:30 03/12

Test Interval: 4608 -

#### **Down Hole Makeup**

Heads Up:	3.850000000005 FT	Packer 1:	4603 FT
Drill Pipe:	4393.07 FT	Packer 2:	4608 FT
ID-3 1/2		Top Recorder:	4592.42 FT
Weight Pipe:	0 FT	Bottom Recorder:	4610 FT
ID-2 7/8		Well Bore Size:	7 7/8
Collars:	186.21 FT		
ID-2 1/4		Surface Choke:	1"
Test Tool:	33.57 FT	Bottom Choke:	5/8"
ID-3 1/2-FH			
Jars			
Safety Joint			
Total Anchor:	24		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top):	0 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):	23 FT		
4 1/2-FH			

Operation: Uploading recovery & pressures	Inc.	/: Ritchie Ex nderson-Sch	•	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
DATE March	DST #5	Formation: Upper Mississipian	Test Interval: 4608 4632'	- Total Depth: 4632'
<b>12</b>	Tim	e On: 07:56 03/12	Time Off: 14:45 0	3/12
2019	Tim	e On Bottom: 10:30 03/1	2 Time Off Bottom:	12:30 03/12
	-	Mud Prope	erties	

Viscosity: 58

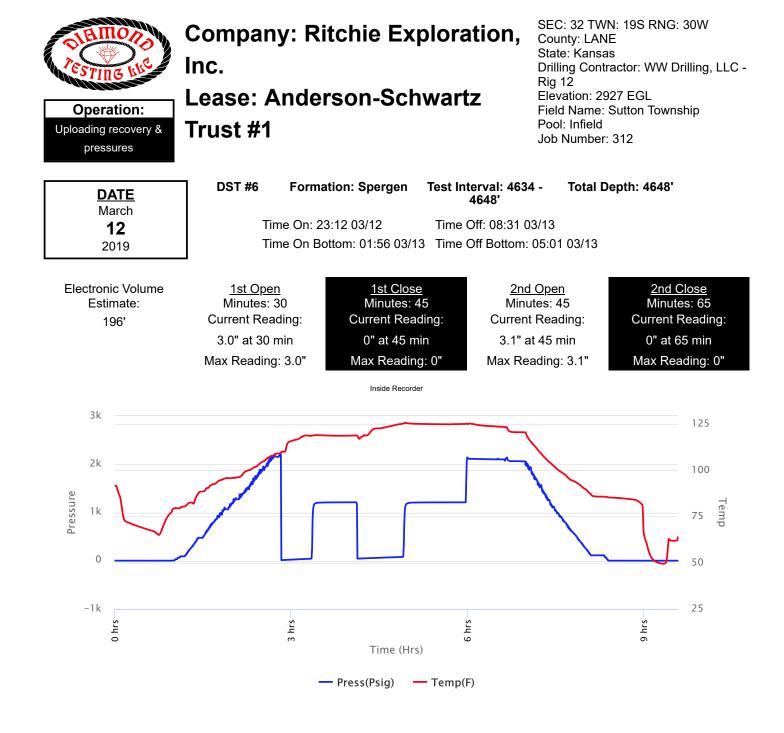
Filtrate: 8.0

Chlorides: 3,000 ppm

Mud Type: Chemical Weight: 8.8

Operation: Uploading recovery & pressures	Inc.	/: Ritchie Exp nderson-Sch	·	Cou Stat Drill Rig Elev Field Poo	C: 32 TWN: 19S RNG: 30W Inty: LANE te: Kansas ling Contractor: WW Drilling, LLC - 12 vation: 2927 EGL d Name: Sutton Township d: Infield Number: 312
DATE March	DST #5	Formation: Upper Mississipian	Test Interval: 4608 4632'	8 -	Total Depth: 4632'
<b>12</b>	Tim	e On: 07:56 03/12	Time Off: 14:45 03	3/12	
2019	Tim	e On Bottom: 10:30 03/12	2 Time Off Bottom:	12:30	0 03/12
	—	Gas Volume I	Report		

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



Operation: Uploading recovery pressures	ding recovery & Trust #1						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		
DATE		DST #6	Formation: Sper		val: 4634 - 48'	Total Dep	oth: 4648'		
March <b>12</b> 2019			e On: 23:12 03/12 e On Bottom: 01:56	_	: 08:31 03/1 Bottom: 05	-			
Recovered									
<u>Foot</u>	<u>BBLS</u>		ription of Fluid	<u>Gas %</u>	<u>Oil %</u>				
	0.0492		0	0	100	0	0		
	0.4182		SLOCM	0	8	0	92		
60 (	0.2952	SI		0	6	42	52	2	
Total Recovered Total Barrels Re			Reversed Ou NO	0.5 —	Recov	rery at a glar	nce		
Initial Hydrostatic	Press	ure 2171	PSI						
•	nitial F			0.25					
Initial Closed in									
Final Flow	Press	ure 43 to 7	78 PSI						
Final Closed in	Press	ure 1209	PSI	0					
Final Hydrostatic	Press	ure 2138	B PSI			r	Recovery		
-	mpera		°F	•	Gas O%	Oil	Water 16.26%	Mud 70.58%	
Pressure Cha Close / F	•		%	GIP cubic foo					

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pressures

## **Company: Ritchie Exploration,**

### Lease: Anderson-Schwartz

Trust #1 Uploading recovery &

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

DATE	
March	
12	
2019	

**DST #6** Formation: Spergen Test Interval: 4634 -4648'

Total Depth: 4648'

Time On: 23:12 03/12

Time Off: 08:31 03/13 Time On Bottom: 01:56 03/13 Time Off Bottom: 05:01 03/13

#### **BUCKET MEASUREMENT:**

1st Open: Surface blow building to 3 1/4" 1st Close: No BB 2nd Open: Surface blow building to 3" 2nd Close: No BB

#### **REMARKS:**

On final shut-in, it was 5 min. late because they were working on mud pump.

Tool Sample: 0% Gas 13% Oil 38% Water 49% Mud

Gravity: 27.6 @ 60 °F

Ph: 7.0

Measured RW: .62 @ 68 degrees °F

RW at Formation Temp: 0.349 @ 126 °F

Chlorides: 39,000 ppm



pressures

### Company: Ritchie Exploration,

# Lease: Anderson-Schwartz

Uploading recovery & 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

DATE	
March	
12	
2019	
	_

DST #6 Formation: Spergen

Test Interval: 4634 -4648' Total Depth: 4648'

 Time On: 23:12 03/12
 Time Off: 08:31 03/13

 Time On Bottom: 01:56 03/13
 Time Off Bottom: 05:01 03/13

#### **Down Hole Makeup**

Heads Up:	9.08 FT	Packer 1:	4629 FT
Drill Pipe:	4424.3 FT	Packer 2:	4634 FT
ID-3 1/2		Top Recorder:	4618.42 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4636 FT
Collars:	186.21 FT	Well Bore Size:	7 7/8
ID-2 1/4	100.2111	Surface Choke:	1"
<b>Test Tool:</b> ID-3 1/2-FH Jars	33.57 FT	Bottom Choke:	5/8"
Safety Joint			
Total Anchor:	14		
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	13 FT		

Operation: Uploading recovery & pressures	Inc.	y: Ritchie Exp	Nartz Nartz Pion Nartz Po	evation: 2927 EGL Id Name: Sutton Township ol: Infield			
DATE Mareh	DST #6	Formation: Spergen	- Test Interval: 4634 4648'	Total Depth: 4648'			
	Tir	me On: 23:12 03/12	Time Off: 08:31 03/13	}			
2019	Tir	me On Bottom: 01:56 03/13	Time Off Bottom: 05:0	01 03/13			
	ration:       the case: Anderson-Schwartz       Rig 12         grecovery &       the case: Anderson-Schwartz       Field Name: Sutton Township         funct       the case: Anderson-Schwartz       Pool: Infield         OATE       DST #6       Formation: Spergen       Test Interval: 4634 -       Total Depth: 4648'         March       12       Time On: 23:12 03/12       Time Off: 08:31 03/13       Time Off Bottom: 01:56 03/13         Time On Bottom: 01:56 03/13       Time Off Bottom: 05:01 03/13       Mud Properties						
Mud Type: Chemical	Weight: 8.9	Viscosity: 52	Filtrate: 8.0	Chlorides: 4,000 ppm			

Operation: Uploading recovery & pressures	Inc.	y: Ritchie Ex nderson-Sch		County: State: K Drilling ( Rig 12 Elevatio Field Na Pool: Int	ansas Contractor: WW Drilling, LLC - n: 2927 EGL ame: Sutton Township
DATE March	DST #6	Formation: Spergen	Test Interval: 4634 4648'	- То	tal Depth: 4648'
12	Tim	e On: 23:12 03/12	Time Off: 08:31 03	3/13	
2019	Tim	e On Bottom: 01:56 03/1	3 Time Off Bottom:	05:01 03	/13

### **Gas Volume Report**

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