KOLAR Document ID: 1425077

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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD	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 #:	Dewatering method used:
Dual Completion Permit #:	
EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
GOVV Territt #.	Lease Name: License #:
Canad Date on Date Decembed TD Completing Date on	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or 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 III Approved by: Date:

KOLAR Document ID: 1425077

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	EATON ENTERPRISES 1
Doc ID	1425077

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	267	Common	190	3% cc, 2% gel
Production	7.88	5.5	15.5	4726	Common	190	10% salt, 2% gel, 1/4% Hadad 322 & 5#/sack Gilsonite



#1 Eaton Enterprises

1,118' FNL & 736' FWL S/2 NW/4 NW/4 Section 30-16S-31W (Irregular Section) Scott County, Kansas API# 15-171-21226-0000

Elevation: GL: 2,956', KB: 2,967'

			Ref.
Sample Tops			Well
Anhydrite	2346	+621	+4
B/Anhydrite	2364	+603	+6
Stotler	3553	-586	+3
Heebener	3934	-967	+4
Toronto	3954	-987	+3
Lansing	3973	-1006	+5
Muncie	4152	-1185	Flat
Stark	4251	-1284	-3
Hush	4296	-1329	-5
BKC	4334	-1367	-2
Marmaton	4366	-1399	-1
Altamont	4396	-1429	-4
Pawnee	4462	-1495	-4
Myrick	4498	-1531	-5
Ft. Scott	4514	-1547	-6
Cherokee	4540	-1573	-8
Johnson	4580	-1613	-6
Morrow Shale	4611	-1644	-7
Mississippian	4643	-1676	-9
RTD	4730	-1763	



5m-1/033 90-17239 47-10924

TICKET NUM	BER 55235
LOCATION_	Ockley Ks
FOREMAN	1 10 H Durkas

SALES TAX ESTIMATED

TOTAL

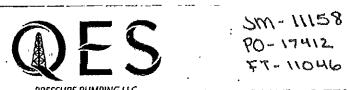
DATE

PRESSURE PUMPING LLC PO Box 884, Chanute, KS 66720

Plavin 3737

Invoic 井813551 620-431-9210 or 800-487-8676 CEMENT TOWNSHIP COUNTY WELL NAME & NUMBER SECTION DATE **CUSTOMER#** 30 Entarphises TRUCK# TRUCK# DRIVER MAILING ADDRES 731 93 HOLE SIZE HOLE DEPTH **CASING SIZE & WEIGHT** OTHER CASING DEPTH_ DRILL PIPE TUBING CEMENT LEFT In CASING SLURRY WEIGHT 25 **SLURRY VOL** WATER gal/sk DISPLACEMENT / DISPLACEMENT PSI_ +Croc ACCOUNT QUANITY or UNITS **DESCRIPTION of SERVICES or PRODUCT UNIT PRICE** TOTAL CODE PUMP CHARGE MILEAGE 00 CC587 SKS Surface Blogs ٠.

AUTHORIZION JUAN TILEOUD TITLE TUS 400 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.



TICKET NUMBE	55224
LOCATION	Orkley Kr
FOREMAN	slew & Y

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

FIELD TICKET & TREATMENT REPORT INVALLE # 13676

620-431-9210 or 800-4	67-8676	CEMEN	INVOICE TO 1001 9			
DATE CUSTON	IER# WELL	NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-18-18 717	3 Fortes E	derperso II-1	30	16	3/	Scott
CUSTOMER /		4-83 jet			4.1	
Kitch	17 EXO	E tokoleo	TRUCK#	DRIVER	TRUCK#	DRIVER
MAILING ADDRESS		2 1)	73/	Carl De		
P.O. BOX 783	188	1/5	528-1427	Paren M		
CITY		ZIP CODE	535	serry Y		
Wichita	STATE	61218-3188				
JOB TYPE PORT COLL	HOLE SIZE	HOLE DEPT	Н ,	CASING SIZE & W	IEIGHT 57	
CASING DEPTH	DRILL PIPE	TUBING_			OTHER Pert	Collere 23
SLURRY WEIGHT 12,5		1.89 WATER gal	sk	CEMENT LEFT In	CASING	
DISPLACEMENT 12/2		PSIMIX PSI		, RATE	•	***************************************
		upon HD well	senfice of	=3 /- too/	to 1200	#-hold
5 min open doe) tetti isi ba	12 3/2 bb/pm@	500# mix	220.565.6	0/90 8	% gel 144
	500 # halls					
		+ down close to				oner reli
		lagn with 300		taking out		
10 5004-5			7)4	, , , , ,		0
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40001005			<u> </u>			1

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
EOSIA	· 1	PUMP CHARGE	1900.00	19000
E0007	40.	MILEAGE	7./5	2860
B0710/	9.46	to miles delivery	1.75	662,20
A Caro. A	110 els	156.17 1 3777		3850 c
C6080 /		liteblend Utt	17.50	
C6075	55 4	floscal	1.00 3.00	165,00
.C(00/3)		TIQUE		190 10C
			Substates	7363.
			-308	2208.9
			Subtotol	5154.a

		8.5		268.64
3737			ESTIMATED	5422.88

AUTHORIZION DATE TILE DATE TO A CONTROL OF THE DATE TO A CONTROL OF THE DATE TO A CONTROL OF 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.

CHARGETO:	(DDRESS	JITY, STATE, ZIP CODE
		Services, Inc.

SWIF	FX	CHARGETO. ADDRESS HOLE EXPLOSEA	ocation		TICKET 27339
Services, Inc.	AIC.	CITY, STATE, ZIP CODE			PAGE OF 3
SERVICE DECATIONS /	WELUPROJECT NO.	LEASE EATON For Leron's Cr	COUNTY/PARISH Sco#	STATE OITY	DATE OWNER #11-18
2 Ness Wily 1/8	TICKET TYPE CONTRACTOR SERVICE SALES	in Deillion	RIG NAMEINO.	SHIPPED DELIVERED TO	GRDER NO.
3.	WELL TYPE	BOC + CON	String	WELL PERMIT NO.	WELL LOCATION
REFERRAL LOCATION	INVOICE INSTRUCTIONS				

PRICE	SECONDARY REFERENCE/	Ą	ACCOUNTING	<u></u>						UNIT	Figure
REFERENCE	PART NUMBER	707	ACCT	r G	DESCRIPTION	ary.	N/M	QTY.	U/M	PRICE	AMOUNI
Sts		_			WILEAGE TY # 4//	09	m'			<u>00</u> ~	300
82.5		`			Pino Chasse - lora String	`	В			008/	1300 00
230		\			D-Air	8	64		_	00 C/2	ao 1 /28
221					CIANTA ME	Co	1869			0 56	00 05
281		_			Mudlush	000	500			es /	00 25%
294					Cement Bastot	Po	184	1		00 StC	1375 00
pop		//			Port College	/	83			2500	2500 00
404		_			1 atch Down Plu & Buttle	/	N. S.			a 250	
£9h					Tocort Play Shoe w/ Auto H	/ //	63			23 K- 60	325 00
404					V	4	13		 .	ed 28	228
					Rotasting Head Kentas	/	KA		<u> </u>	000	200 00
							. —				-
LEGAL TERMS:	LEGAL TERMS: Customer hereby acknowledges and agrees to	es and s	orees to	<u> </u>		SURVEY	AG.	AGREE DECIDED	DIS- ED AGREE		∞d h86t
the terms and con-	the terms and conditions on the reverse side hereof which include	- Josephick	abilonia		REMIT PAYMENT TO: OUR EQUIPM	OUR EQUIPMENT PERFORMED	_				12 12 17

by acknowledges and agrees to verse side hereof which include, ; RELEASE, INDEMNITY, and is. IS. MERS AGENT PRIOR TO ME SIGNED D AM.	SURVEY AGREE DUN- DIS-	REMIT PAYMEN 10: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	WE UNDERSTOOD AND MET YOUR NEEDS?	SWIFT SERVICES INC.		P.O. BOX 466 AND PERSONNED JOB CALCULATIONS	A CITY OF OUR SERVICE?	JOH JOO DOOD	
1 to 5 to 12			but are not limited to, PAYMENT, RELEASE, INDEMNITY, and		PRIOR TO	START OF WORK OR DELIVERY OF GOODS		0 I	

	OUR EQUIPMENT PERFORMED	15 15 7 15 10 7	05	
	WE UNDERSTOOD AND		11.100	ı
	MET YOUR NEEDS?	7	5250	. 1
(OUR SERVICE WAS	100 to 10	ジーンセエー	ء ا
<u>ز</u>	PERFORMED WITHOUT DELAY?		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ı۸.
	WE OPERATED THE EQUIPMENT	108	1.276/	_
	AND PERFORMED JOB CALCULATIONS	77.50	000	١
_	SATISFACTORILY?	メンシ	201.100	^
>	ARE YOU SATISFIED WITH OUR SERVICE?			ı
	TYES ON O			
	☐ CUSTOMER DID NOT WISH TO RESPOND	IOIAL	100000 1000000	$\overline{}$
eby acknow	edges receipt of the materials and services listed on this ficket.			经数

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer her SWIFT OPERATOR

Thank You!

ANNA ANNA
2000

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800-X44 280-Y04
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\$ mark

PO Box 466

Ness City, KS 67560 Off: 785-798-2300

260 00 8 00 008 3/20 00 05000 AMOUNT 经 25 CS 08 8 81-11-Davo PRICE 2/5 CUBIC FEET 240 SLS QTY 1200 165 00 COVOED WEES CHARGE TOTAL SELVIT CHARGE SERVICE CHARGE 140 TIME ACCT DF ACCOUNTING ဗ္ SECONDARY REFERENCE/ PART NUMBER Severelle PRICE REFERENCE 325 283 グナグ 379

CONTINUATION TOTAL

SWIFT Services. Inc.

LEASE
FATON Enterprises
PRESSURE (PSI)
TUBING CASING

DATE
7-//-/8
TICKET NO.
27339
DESCRIPTION OF OPERATION AND MATERIALS PAGE NO. JOB LOG ÇUSTOMER WELL NO. itchie Exporation CHART TIME NO. VOLUME (BBL) (GAL) PUMPS TC 2030 On location RxD - 4730' lipe set e 4726 Insert e 4706 Port Collar # 56 e 2340 Centralizers - 1, 3,5,8,10, 12,14,16,55,57 Baskets - 9,15,56,69,89 Start running Csg
Break Circ on Bottom
Plug Rat hole-30 sks
Plug Mouse hole-20 sks
Plug Mouse hole-20 sks
Pump Mudflush - 500 6me
Pump Met Spacer
Pump Cmit - 190 sks c 14.9 MG
Drop Plug - Wash P&L
Start Disp
Catch Pressure
Land plug - lift psi - 800 # Ó 0 300 Sod 300 200 500 315 800 Release Psi - Dry JOB Complete Thanks David, Znex & Isaac



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATE July 04 2018

DST #1 Formation: O read A Test Interval: 3872 zone

Total Depth: 3894' 3894'

Time On: 00:24 07/04 Time Off: 08:00 07/04

Time On Bottom: 02:40 07/04 Time Off Bottom: 05:40 07/04

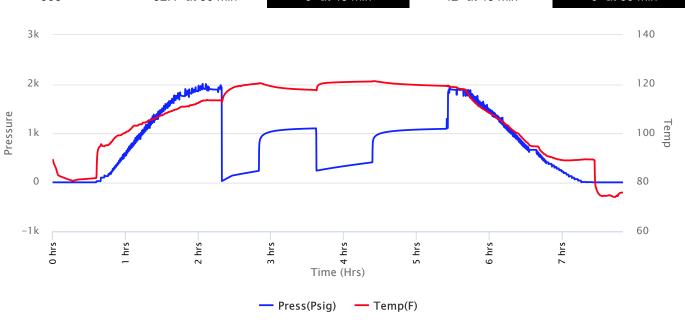
Electronic Volume Estimate: 908'

1st Open Minutes: 30 32.4" at 30 min

1st Close Minutes: 45 0" at 45 min

2nd Open Minutes: 45 42" at 45 min

2nd Close Minutes: 60 0" at 60 min





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATE	
July	
04	
2018	

DST #1 Formation: O read A Test Interval: 3872 - Total Depth: 3894' zone 3894'

Time On Bottom: 02:40 07/04 Time Off Bottom: 05:40 07/04

Recovered

<u>Foot</u>	<u>BBLS</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
45	0.64035	MCW	0	0	80	20
126	1.79298	SLMCW	0	0	95	5
252	3.58596	SLMCW	0	0	97	3
441	3.4226598	SLMCW	0	0	99	1

Total Recovered: 864 ft

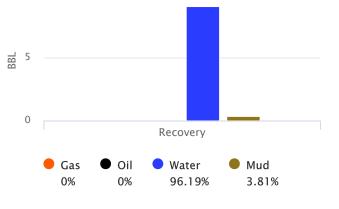
Total Barrels Recovered: 9.4419498

Close / Final Close

Reversed Out
NO

Initial Hydrostatic Pressure	1890	PSI
Initial Flow	23 to 233	PSI
Initial Closed in Pressure	1098	PSI
Final Flow Pressure	236 to 406	PSI
Final Closed in Pressure	1089	PSI
Final Hydrostatic Pressure	1888	PSI
Temperature	122	°F
Pressure Change Initial	0.8	%

Recovery at a glance





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATE July 04 2018

DST #1

Formation: O read A zone

Test Interval: 3872 -3894'

Total Depth: 3894'

Time On: 00:24 07/04

Time Off: 08:00 07/04

Time On Bottom: 02:40 07/04 Time Off Bottom: 05:40 07/04

REMARKS:

If:1/2" bob in 9min Ic:nobb Ff:wsb bob in 11 1/2min Fc:nobb

Toolsample: 97w - 3m oil spec

Ph: 7

RW: .15 @ 75 degrees F

Chlorides: 46000 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATEJuly **04**2018

Formation: O read A Test Interval: 3872 - Total Depth: 3894'

Time On: 00:24 07/04 Time Off: 08:00 07/04

Time On Bottom: 02:40 07/04 Time Off Bottom: 05:40 07/04

Down Hole Makeup

Heads Up: 16.98 FT **Packer 1:** 3867 FT

Drill Pipe: 3549.99 FT **Packer 2**: 3872 FT

ID-3 1/2

DST #1

Top Recorder: 3856.42 FT

Weight Pipe: FT Bottom Recorder: 3874 FT

Collars: 306.42 FT **Well Bore Size:** 7 7/8

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: 22

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 21 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATEJuly **04**2018

DST #1 Formation: O read A

Test Interval: 3872 -

Total Depth: 3894'

zone 3894'

Time On Bottom: 02:40 07/04 Time Off Bottom: 05:40 07/04

Mud Properties

Mud Type: Chemical Weight: 8.7 Viscosity: 55 Filtrate: 6.8 Chlorides: 2400 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATE July 04 2018

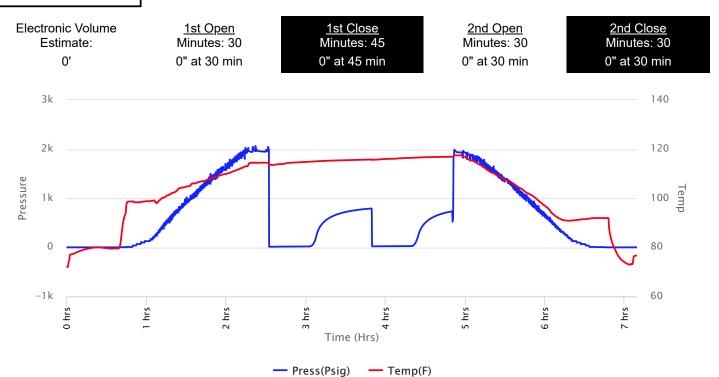
DST #2 Formation: Lansing Test Interval: 3994 -4016'

Total Depth: 4016'

Time On: 23:18 07/04

Time Off: 06:14 07/05

Time On Bottom: 01:45 07/05 Time Off Bottom: 04:00 07/05





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATEJuly **04**2018

DST #2 Formation: Lansing Test Interval: 3994 - Total Depth: 4016'
C 4016'

Time On: 23:18 07/04 Time Off: 06:14 07/05

Time On Bottom: 01:45 07/05 Time Off Bottom: 04:00 07/05

Recovered

Initial Hydrostatic Pressure

Initial Closed in Pressure

Final Closed in Pressure

Final Hydrostatic Pressure

Pressure Change Initial

Close / Final Close

Final Flow Pressure

 Foot
 BBLS
 Description of Fluid
 Gas %
 Oil %
 Water %
 Mud %

 3
 0.01476
 M
 0
 0
 0
 100

Total Recovered: 3 ft

Total Barrels Recovered: 0.01476

Initial Flow

Temperature

Reversed Out NO PSI PSI PSI

PSI

PSI

PSI

°F

%

1951

10 to 17

791

19 to 23

733

1945

117

7.3

BBL	0.01					
	0			Recovery		
		Gas 0%	Oil 0%	Water 0%	Mud100%	

Recovery at a glance



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

July 04

2018

REMARKS:

If:wsb no build Ic:nobb Ff:no blow no build Fc:nobb

Toolsample: 100m oil spec

Formation: Lansing C

DST #2

Test Interval: 3994 -

al: 3994 - Total Depth: 4016' 6'

4016'

Time On: 23:18 07/04 Time Off: 06:14 07/05

Time On Bottom: 01:45 07/05 Time Off Bottom: 04:00 07/05



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATEJuly **04**2018

DST #2 Formation: Lansing Test Interval: 3994 - Total Depth: 4016'
C 4016'

Time On: 23:18 07/04 Time Off: 06:14 07/05

Time On Bottom: 01:45 07/05 Time Off Bottom: 04:00 07/05

Down Hole Makeup

Heads Up: 21.94 FT **Packer 1:** 3989 FT

Drill Pipe: 3708.2 FT **Packer 2:** 3994 FT

ID-3 1/2 **Top Recorder:** 3978.42 FT

Weight Pipe: FT Bottom Recorder: 3996 FT

ID-2 7/8

Well Bore Size: 7 7/8

Collars: 275.17 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: 22

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 21 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Unknown

Pool: Infield Job Number: 183

DATEJuly **04**2018

DST #2 Formation: Lansing

Test Interval: 3994 -

Total Depth: 4016'

4016'

Time On: 23:18 07/04

Time Off: 06:14 07/05

Time On Bottom: 01:45 07/05 Time Off Bottom: 04:00 07/05

Mud Properties

Mud Type: Chemical Weight: 8.9 Viscosity: 67 Filtrate: 7.2 Chlorides: 4000 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **05**2018

DST #3 Formation: Lansing D,E,F

Test Interval: 4050 - 4085'

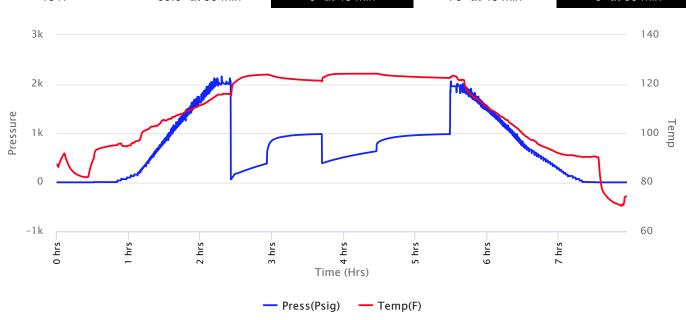
Total Depth: 4085'

Time On: 17:37 07/05 Time Off: 01:20 07/06

Time On Bottom: 19:55 07/05 Time Off Bottom: 22:55 07/05

Electronic Volume Estimate: 1517' 1st Open Minutes: 30 69.6" at 30 min 1st Close Minutes: 45 0" at 45 min

2nd Open Minutes: 45 70" at 45 min 2nd Close Minutes: 60 0" at 60 min





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATE
July
05
2018

DST #3	Formation: Lansing D,E,F	Test Interval: 4050 - 4085'	Total Depth: 4085'
	, ,		

Time On: 17:37 07/05 Time Off: 01:20 07/06

Time On Bottom: 19:55 07/05 Time Off Bottom: 22:55 07/05

Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
10	0.1423	Ο	0	100	0	0
50	0.7115	SLOCHMCW	0	5	60	35
189	2.68947	SLMCSLOCW	0	15	70	15
189	2.68947	SLGCSLOCSLMCW	10	10	67	13
504	7.17192	SLOCSLMCW	0	4	91	5
567	5.5065773	SLMCW	0	0	95	5

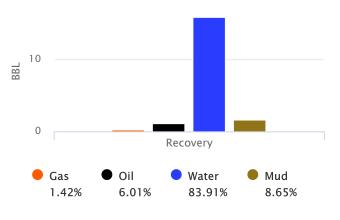
Total Recovered: 1509 ft

Total Barrels Recovered: 18.9112373

Reversed Out
NO

Recovery	at a	glance
110001019	ut u	gianice

Initial Hydrostatic Pressure	2019	PSI
Initial Flow	57 to 381	PSI
Initial Closed in Pressure	983	PSI
Final Flow Pressure	391 to 632	PSI
Final Closed in Pressure	981	PSI
Final Hydrostatic Pressure	1996	PSI
Temperature	125	°F
Pressure Change Initial	0.2	%
Close / Final Close		





Lease: Eaton Enterprises #1

Formation: Lansing

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 05 2018

REMARKS:

If:1" bob In 3 1/2min Ic:nobb Ff:wsb bob in 6min Fc:nobb

Toolsample: 20o - 60w - 20m

Gravity: 28.3 @ 60 degrees F

Ph: 7

RW: .2 @ 70 degrees F

Chlorides: 36000 ppm

D,E,F

DST #3

Test Interval: 4050 -

Total Depth: 4085'

4085'

Time On: 17:37 07/05 Time Off: 01:20 07/06

Time On Bottom: 19:55 07/05 Time Off Bottom: 22:55 07/05



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **05**2018

DST #3 Formation: Lansing Test Interval: 4050 - Total Depth: 4085' D,E,F 4085'

Time On: 17:37 07/05 Time Off: 01:20 07/06

Time On Bottom: 19:55 07/05 Time Off Bottom: 22:55 07/05

Down Hole Makeup

Heads Up: 29.15 FT **Packer 1:** 4045 FT

Drill Pipe: 3771.41 FT **Packer 2:** 4050 FT

ID-3 1/2

Top Recorder: 4034.42 FT

Weight Pipe: FT Bottom Recorder: 4052 FT

Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Collars:

Jars

Safety Joint

Total Anchor: 35

Anchor Makeup

275.17 FT

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 34 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **05**2018

DST #3 Formation: Lansing D,E,F

Test Interval: 4050 - 4085'

Total Depth: 4085'

Time On: 17:37 07/05

Time Off: 01:20 07/06

Time On Bottom: 19:55 07/05 Time Off Bottom: 22:55 07/05

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 56 Filtrate: 7.2 Chlorides: 4200 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **06**2018

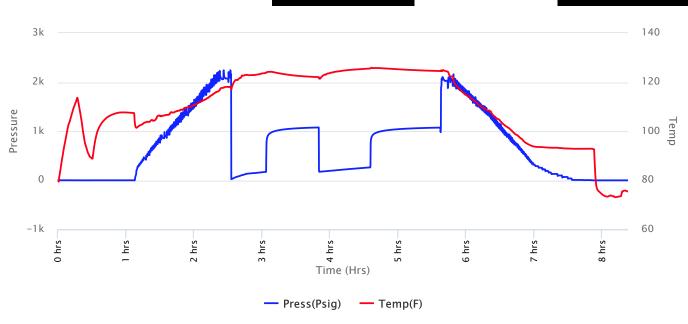
DST #4 Formation: Lansing I Test Interval: 4186 - Total Depth: 4210' 4210'

Time On: 14:36 07/06 Time Off: 22:45 07/06

Time On Bottom: 17:05 07/06 Time Off Bottom: 20:05 07/06

Electronic Volume Estimate: 702' 1st Open Minutes: 30 22.1" at 30 min 1st Close Minutes: 45 1" at 45 min

2nd Open Minutes: 45 26.1" at 45 min 2nd Close Minutes: 60 .25" at 60 min





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **06**2018

DST #4 Formation: Lansing I Test Interval: 4186 - Total Depth: 4210' 4210'

Time On: 14:36 07/06 Time Off: 22:45 07/06

Time On Bottom: 17:05 07/06 Time Off Bottom: 20:05 07/06

Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
75	1.06725	G	100	0	0	0
234	3.32982	0	0	100	0	0
63	0.89649	WCOCMCG	35	20	20	25
189	1.8872273	SLOCWCGCM	25	10	20	45
126	0.61992	SLGCWCHMCO	5	40	20	35
63	0.30996	SLGCWCMCO	3	52	20	25

Total Recovered: 750 ft

Total Barrels Recovered: 8.1106673

I	Reversed Out
ı	NO

Recovery at a glance

Initial Hydrostatic Pressure	2094	PSI
Initial Flow	22 to 171	PSI
Initial Closed in Pressure	1076	PSI
Final Flow Pressure	173 to 262	PSI
Final Closed in Pressure	1073	PSI
Final Hydrostatic Pressure	2091	PSI
Temperature	126	°F
Pressure Change Initial	0.3	%
Close / Final Close		

J88	5			
(0	Pacc	overy	
•	Gas •	Oil	Water •	Mud
	23.34%	50.64%	9.16%	16.86%



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 06

2018

REMARKS:

Fc: built to 1/4

If:1/2" bob in 15 min Ic:built to 1" Ff:wsb bob in 18 1/2min

Toolsample: 50o - 25w - 25m

Gravity: 22.5 @ 60 degrees F

Ph: 7

RW: .3 @ 82 degrees F

Chlorides: 19000 ppm

Formation: Lansing I

DST #4

Test Interval: 4186 -

Total Depth: 4210'

4210'

Time On: 14:36 07/06 Time Off: 22:45 07/06

Time On Bottom: 17:05 07/06 Time Off Bottom: 20:05 07/06



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

4170.42 FT

Pool: Infield Job Number: 183

July **06** 2018 DST #4 Formation: Lansing I Test Interval: 4186 - Total Depth: 4210'

4210'

Top Recorder:

Time On: 14:36 07/06 Time Off: 22:45 07/06

Time On Bottom: 17:05 07/06 Time Off Bottom: 20:05 07/06

Down Hole Makeup

Heads Up: 20.18 FT **Packer 1:** 4181 FT

Drill Pipe: 3898.44 FT **Packer 2:** 4186 FT

ID-3 1/2

Weight Pipe: FT

Bottom Recorder: 4188 FT

Collars: 275.17 FT Well Bore Size: 7 7/8

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 Makeup

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 23 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 06

2018

Formation: Lansing I Test Int

Test Interval: 4186 -

Total Depth: 4210'

4210'

Time On: 14:36 07/06

DST#4

Time Off: 22:45 07/06

Time On Bottom: 17:05 07/06 Time Off Bottom: 20:05 07/06

Mud Properties

Mud Type: Chemical Weight: 9.4 Viscosity: 59 Filtrate: 8.8 Chlorides: 5000 ppm



Lease: Eaton Enterprises #1

Time On: 08:35 07/07

SEC: 30 TWN: 16S RNG: 31W

Total Depth: 4270'

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

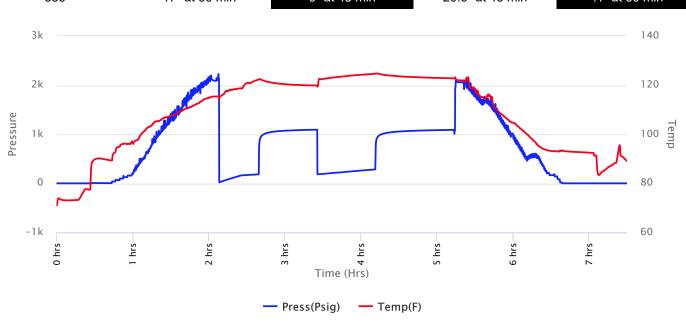
DST #5 Formation: Lansing Test Interval: 4214 - J and K 4270'

Time Off: 15:52 07/07

Time On Bottom: 10:40 07/07 Time Off Bottom: 13:40 07/07

Electronic Volume Estimate: 585' 1st Open Minutes: 30 17" at 30 min 1st Close Minutes: 45 0" at 45 min

2nd Open Minutes: 45 20.6" at 45 min 2nd Close Minutes: 60 .1" at 60 min





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

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July	y
07	•
201	8

DST #5	Formation: Lansing	Test Interval: 4214 -	Total Depth: 4270'
	J and K	4270'	-

Time On Bottom: 10:40 07/07 Time Off Bottom: 13:40 07/07

Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
32	0.45536	SLOCHWCM	0	3	37	60
63	0.89649	SLOCSLGCM	6	1	0	93
126	1.79298	SLGCSLOCMCW	5	5	65	25
252	2.7837173	SLOCSLGCHMCW	7	3	50	40
189	0.92988	SLMCSLOCW	0	10	80	10

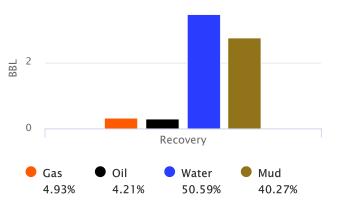
Total Recovered: 662 ft

Total Barrels Recovered: 6.8584273

Reversed Out	t
NO	ı

Initial Hydrostatic Pressure	2094	PSI
Initial Flow	18 to 182	PSI
Initial Closed in Pressure	1091	PSI
Final Flow Pressure	184 to 282	PSI
Final Closed in Pressure	1088	PSI
Final Hydrostatic Pressure	2073	PSI
Temperature	125	°F
Pressure Change Initial	0.3	%
Close / Final Close		

Recovery at a glance





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Pool: Infield Job Number: 183

DATE July 07 2018

REMARKS:

If:1/2" bob in 20min lc:nobb Ff:1/4" bob in 25 1/2min Fc:wsb died off 20min in

Toolsample: 10o - 89w - 1m

Ph: 8

RW: .2 @ 95 degrees F

Chlorides: 25000 ppm

DST #5 Formation: Lansing J and K

Test Interval: 4214 -

Total Depth: 4270'

Field Name: Michigan West

4270'

Time On: 08:35 07/07 Time Off: 15:52 07/07

Time On Bottom: 10:40 07/07 Time Off Bottom: 13:40 07/07



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

DST #5 Formation: Lansing Test Interval: 4214 - Total Depth: 4270'

J and K 4270'

Time On: 08:35 07/07 Time Off: 15:52 07/07

Time On Bottom: 10:40 07/07 Time Off Bottom: 13:40 07/07

Down Hole Makeup

Heads Up: 24.2 FT **Packer 1:** 4209 FT

Drill Pipe: 3930.46 FT **Packer 2:** 4214 FT

ID-3 1/2

Top Recorder: 4198.42 FT

Weight Pipe: FT Bottom Recorder: 4249 FT

Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Collars:

Jars

Safety Joint

Total Anchor: 56

Anchor Makeup

275.17 FT

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.5 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 22 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

DST #5 Formation: Lansing Tes J and K

Test Interval: 4214 - 4270'

Total Depth: 4270'

Time On Bottom: 10:40 07/07 Time Off Bottom: 13:40 07/07

Mud Properties

Mud Type: Chemical Weight: 9.4 Viscosity: 59 Filtrate: 8.8 Chlorides: 5000 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

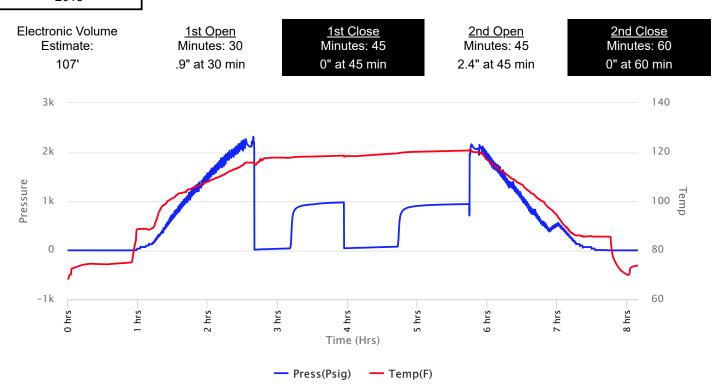
Pool: Infield Job Number: 183

DATEJuly **07**2018

DST #6 Formation: Lansing Test Interval: 4290 - Total Depth: 4321'

Time On: 23:34 07/07 Time Off: 07:29 07/08

Time On Bottom: 02:10 07/08 Time Off Bottom: 05:10 07/08





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

DST #6 Formation: Lansing Test Interval: 4290 - Total Depth: 4321'

Time On Bottom: 02:10 07/08 Time Off Bottom: 05:10 07/08

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	Gas %	<u>Oil %</u>	Water %	<u>Mud %</u>
75	0.369	0	0	100	0	0
63	0.30996	SLOCM	0	10	0	90

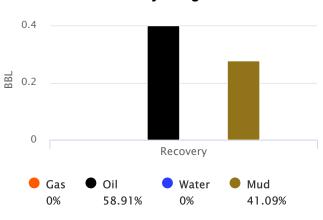
Total Recovered: 138 ft

Total Barrels Recovered: 0.67896

Reversed Ou	ut
NO	

Initial Hydrostatic Pressure	2133	PSI
Initial Flow	12 to 37	PSI
Initial Closed in Pressure	975	PSI
Final Flow Pressure	41 to 82	PSI
Final Closed in Pressure	941	PSI
Final Hydrostatic Pressure	2127	PSI
Temperature	121	°F
Pressure Change Initial	3.5	%
Close / Final Close		

Recovery at a glance





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

REMARKS:

If:wsb built to 2.9"
Ic:nobb
Ff:wsb built to 2.4"
Fc:nobb

Toolsample: 15o - 85m

Gravity: 18.5 @ 60 degrees F

DST #6 Formation: Lansing L

Time On: 23:34 07/07

Test Interval: 4290 - 4321'

Total Depth: 4321'

7021

Time Off: 07:29 07/08

Time On Bottom: 02:10 07/08 Time Off Bottom: 05:10 07/08



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

DST #6 Formation: Lansing Test Interval: 4290 - Total Depth: 4321'

4321

Time On: 23:34 07/07 Time Off: 07:29 07/08

Time On Bottom: 02:10 07/08 Time Off Bottom: 05:10 07/08

Down Hole Makeup

Heads Up: 10.91 FT **Packer 1:** 4285 FT

Drill Pipe: 3993.17 FT **Packer 2:** 4290 FT

ID-3 1/2

Top Recorder: 4274.42 FT

Weight Pipe: FT Bottom Recorder: 4294 FT

Collars: 275.17 FT Well Bore Size: 7 7/8

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: 31

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 28 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **07**2018

DST #6 Formation: Lansing Test Interval: 4290 - Total Depth: 4321'

Time On: 23:34 07/07 Time Off: 07:29 07/08

Time On Bottom: 02:10 07/08 Time Off Bottom: 05:10 07/08

Mud Properties

Mud Type: Chemical Weight: 9.3 Viscosity: 55 Filtrate: 7.2 Chlorides: 4500 ppm



Lease: Eaton Enterprises #1

Time On: 23:52 07/08

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **08**2018

DST #7 Formation: Altamont Test Interval: 4408 - B and C 4455'

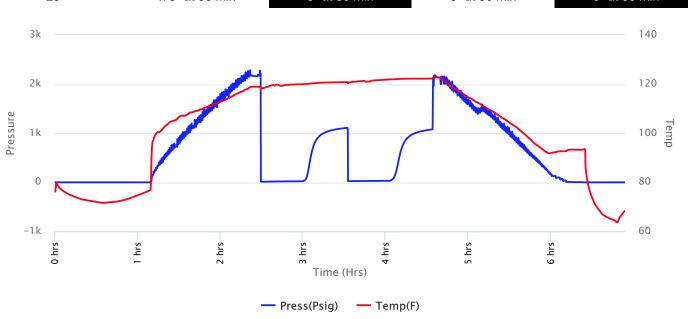
Interval: 4408 - Total Depth: 4455' 4455'

Time Off: 06:33 07/09

Time On Bottom: 02:20 07/09 Time Off Bottom: 04:20 01/01

Electronic Volume Estimate: 25' 1st Open Minutes: 30 .75" at 30 min 1st Close Minutes: 30 0" at 30 min

2nd Open Minutes: 30 0" at 30 min 2nd Close Minutes: 30 0" at 30 min





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **08**2018

DST #7 Formation: Altamont Test Interval: 4408 - Total Depth: 4455'
B and C 4455'

Time On: 23:52 07/08 Time Off: 06:33 07/09

Time On Bottom: 02:20 07/09 Time Off Bottom: 04:20 01/01

Recovered

 Foot
 BBLS
 Description of Fluid
 Gas %
 Oil %
 Water %
 Mud %

 30
 0.1476
 SLOCM
 0
 2
 0
 98

Total Recovered: 30 ft

Total Barrels Recovered: 0.1476

Reversed Out NO		F	Recovery	y at a glar	nce	
PSI	0.1					
PSI	BBL					
PSI						
PSI						
PSI	0		_			
PSI	1			Recovery		
°F		_	_		_	
		Gas	Oil	Water	Mud	
0/		0%	2%	0%	98%	

Initial Hydrostatic Pressure 2162 Initial Flow 11 to 22 **Initial Closed in Pressure** 1109 Final Flow Pressure 23 to 30 1078 **Final Closed in Pressure** Final Hydrostatic Pressure 2159 Temperature 123 Pressure Change Initial 2.8 Close / Final Close



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West Pool: Infield Job Number: 183

DATE July 80 2018

REMARKS:

If:wsb built to 3/4" Ic:nobb Ff:no blow no build Fc:nobb

Toolsample: 2o - 98m

DST #7 Formation: Altamont B and C

Test Interval: 4408 -4455'

Total Depth: 4455'

Time On: 23:52 07/08 Time Off: 06:33 07/09

Time On Bottom: 02:20 07/09 Time Off Bottom: 04:20 01/01



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

4392.42 FT

Pool: Infield Job Number: 183

DATEJuly **08**2018

DST #7 Formation: Altamont Test Interval: 4408 - Total Depth: 4455'

B and C 4455'

Time On: 23:52 07/08 Time Off: 06:33 07/09

Time On Bottom: 02:20 07/09 Time Off Bottom: 04:20 01/01

Down Hole Makeup

Heads Up: 18.33 FT **Packer 1:** 4403 FT

Drill Pipe: 4118.59 FT **Packer 2:** 4408 FT

ID-3 1/2 Top Recorder:

Weight Pipe: FT

ID-2 7/8 Bottom Recorder: 4445 FT

Collars: 275.17 FT Well Bore Size: 7 7/8

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: 47

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.5 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 11 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **08**2018

DST #7 Formation: Altamont B and C

Test Interval: 4408 - 4455'

Total Depth: 4455'

Time On: 23:52 07/08 Time Off: 06:33 07/09

Time On Bottom: 02:20 07/09 Time Off Bottom: 04:20 01/01

Mud Properties

Mud Type: Chemical Weight: 9.2 Viscosity: 54 Filtrate: 8.0 Chlorides: 5500 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATE
July
10
2018

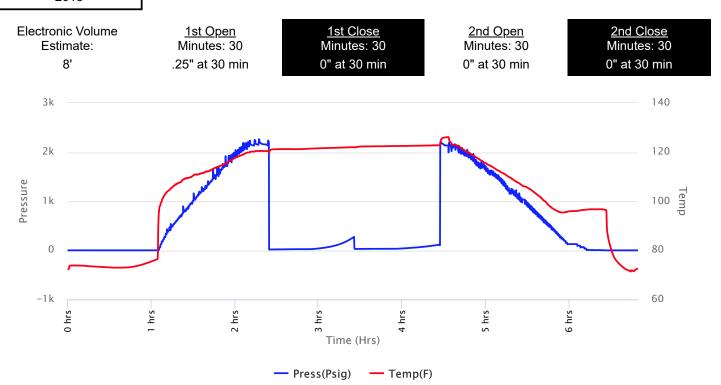
DST #8 Formation: Pawnee Tes threw johnson

Test Interval: 4456 - 4600'

Total Depth: 4600'

Time On: 00:55 07/10 Time Off: 07:33 07/10

Time On Bottom: 03:15 07/10 Time Off Bottom: 05:15 07/10





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 10 2018

DST #8 Formation: Pawnee threw johnson

Test Interval: 4456 -4600'

Total Depth: 4600'

Time On: 00:55 07/10

Time Off: 07:33 07/10

Time On Bottom: 03:15 07/10 Time Off Bottom: 05:15 07/10

Recovered

Foot BBLS 20 0.0984

Initial Hydrostatic Pressure

Initial Closed in Pressure

Final Closed in Pressure

Final Hydrostatic Pressure

Pressure Change Initial

Close / Final Close

Final Flow Pressure

Description of Fluid **SLOCM**

2156

15 to 23

273

28 to 30

113

2136

123

58.7

Gas % 0

Oil % 2

Water % 0

Mud % 98

Total Recovered: 20 ft

Total Barrels Recovered: 0.0984

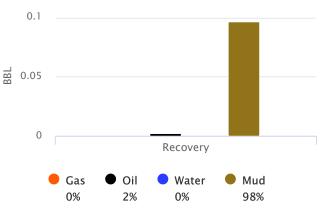
Initial Flow

Temperature

Reversed Out

NO
PSI
°F
%

Recovery at a glance





Inc.

Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 10

uly

2018

REMARKS:

If:1/4" built to 1/2" Ic:nobb Ff:no blow no build Fc:nobb

Toolsample: 2o - 98m

DST #8 Formation: Pawnee threw johnson

Test Interval: 4456 - 4600'

Total Depth: 4600'

Time On: 00:55 07/10 Time Off: 07:33 07/10

Time On Bottom: 03:15 07/10 Time Off Bottom: 05:15 07/10



Lease: Eaton Enterprises #1

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Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

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DATE
July
10
2018

Formation: Pawnee threw johnson

Test Interval: 4456 - 4600'

Total Depth: 4600'

Time On: 00:55 07/10

Time Off: 07:33 07/10

Time On Bottom: 03:15 07/10 Time Off Bottom: 05:15 07/10

Down Hole Makeup

Heads Up: 32.82 FT **Packer 1:** 4451 FT

Drill Pipe: 4181.08 FT **Packer 2:** 4456 FT

ID-3 1/2

DST #8

275.17 FT

Top Recorder: 4440.42 FT

Weight Pipe: FT Bottom Recorder: 4588 FT

Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Collars:

Jars

Safety Joint

Total Anchor: 144

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 126 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 13 FT

4 1/2-FH



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATEJuly **10**2018

Formation: Pawnee

DST #8

Test Interval: 4456 -

Total Depth: 4600'

threw johnson 4600'

Time On: 00:55 07/10 Time Off: 07:33 07/10

Time On Bottom: 03:15 07/10 Time Off Bottom: 05:15 07/10

Mud Properties

Mud Type: Chemical Weight: 9.3 Viscosity: 61 Filtrate: 9.6 Chlorides: 6000 ppm



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 10 2018

DST #9 Formation: Lower Johnson and upper morrow

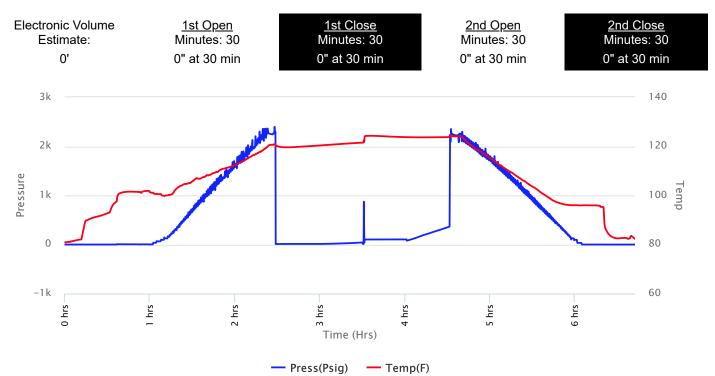
Test Interval: 4599 -

Total Depth: 4620'

4620'

Time On: 14:44 07/10 Time Off: 21:15 07/10

Time On Bottom: 17:08 07/10 Time Off Bottom: 19:08 07/10





Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 10 2018

DST #9 Formation: Lower Johnson and upper morrow

Test Interval: 4599 -

Total Depth: 4620'

4620'

Time On: 14:44 07/10

Time Off: 21:15 07/10

Time On Bottom: 17:08 07/10 Time Off Bottom: 19:08 07/10

0

Recovered

Foot BBLS 160 0.7872 **Description of Fluid** Μ

Gas % Oil %

Water % 0

Mud % 100

Total Recovered: 160 ft

Total Barrels Recovered: 0.7872

Reversed Out
NO

Recov	ery	at	а	glance

0

Initial Hydrostatic Pressure	2253	PSI
Initial Flow	10 to 11	PSI
Initial Closed in Pressure	41	PSI
Final Flow Pressure	100 to 102	PSI
Final Closed in Pressure	102	PSI
Final Hydrostatic Pressure	2244	PSI
Temperature	125	°F
Pressure Change Initial	0.0	%
Close / Final Close		

BBL	0.5				
	0			Recovery	
		Gas 0%	Oil 0%	Water 0%	Mud100%



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West Pool: Infield Job Number: 183

DATE
July
10
2018

DST #9 Formation: Lower Johnson and upper morrow

Test Interval: 4599 - 4620'

Total Depth: 4620'

Time On: 14:44 07/10

Time Off: 21:15 07/10

Time On Bottom: 17:08 07/10 Time Off Bottom: 19:08 07/10

REMARKS:

If:wsb no build

Ff: flush tool-gd flush - no blow no build

Fc:nobb

Toolsample: 100m



Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL

Field Name: Michigan West

Pool: Infield Job Number: 183

DATE July 10 2018

DST #9 Formation: Lower

Johnson and upper morrow

Test Interval: 4599 -4620'

Total Depth: 4620'

Time On: 14:44 07/10

Time Off: 21:15 07/10

Time On Bottom: 17:08 07/10 Time Off Bottom: 19:08 07/10

Down Hole Makeup

Heads Up: 15.75 FT Packer 1: 4594 FT

Drill Pipe: 4307.01 FT Packer 2: 4599 FT

ID-3 1/2

Top Recorder:

4583.42 FT

Weight Pipe: FT ID-2 7/8

Bottom Recorder: 4604 FT

Well Bore Size:

Bottom Choke:

7 7/8

5/8"

Collars: 275.17 FT ID-2 1/4

Surface Choke:

Test Tool: 33.57 FT 1"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 21

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 17 FT

4 1/2-FH



DATE

July

10

2018

Company: Ritchie Exploration, Inc.

Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W

County: SCOTT State: Kansas

Drilling Contractor: Murfin Drilling

Company, Inc - Rig 21 Elevation: 2956 GL Field Name: Michigan West

Pool: Infield Job Number: 183

DST #9

Formation: Lower Johnson and upper morrow

Test Interval: 4599 -4620'

Total Depth: 4620'

Time On: 14:44 07/10 Time Off: 21:15 07/10

Time On Bottom: 17:08 07/10 Time Off Bottom: 19:08 07/10

Mud Properties

Mud Type: Chemical Weight: 9.2 Viscosity: 67 Filtrate: 8.0 Chlorides: 6600 ppm



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

Well Name: EATON ENTERPRISES

Well Id: #1

Location: 1118' FNL, 736' FWL, Sec 30-T16S-R31W, Scott County, Kansas

License Number: API: 15-171-21226 Region: Scott County Spud Date: 06/30/2018 Drilling Completed: 07/11/2018

Spud Date: 06/30/2018 Surface Coordinates: Lat: 38.6395885

Long: -100.7942446

Bottom Hole Vertical hole

Coordinates:

Ground Elevation (ft): 2956' K.B. Elevation (ft): 2967' Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4730'

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

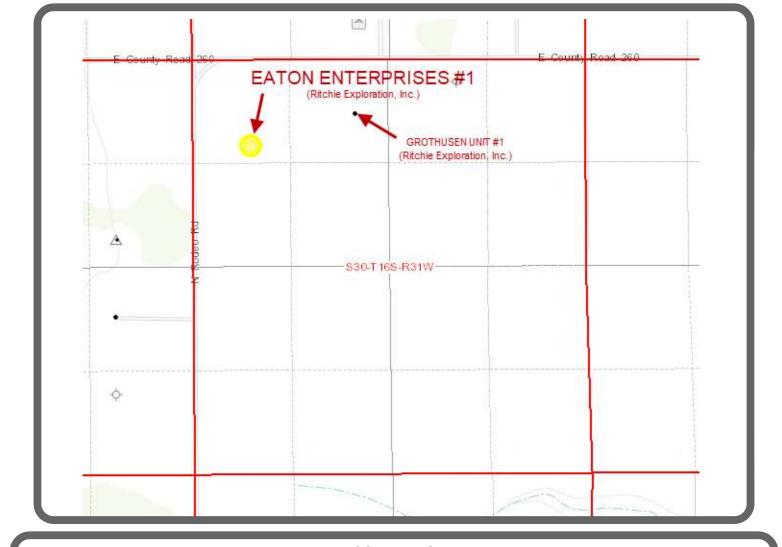
Name: Kent R. Matson

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: Murfin Drilling Company, Rig #21. Tool Pusher: Juan Tinoco, 785-443-0127 (cell).

Surface Casing: 8 5/8" set at 266' (KB) w/190sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation,

production casing (5.5") was installed.

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

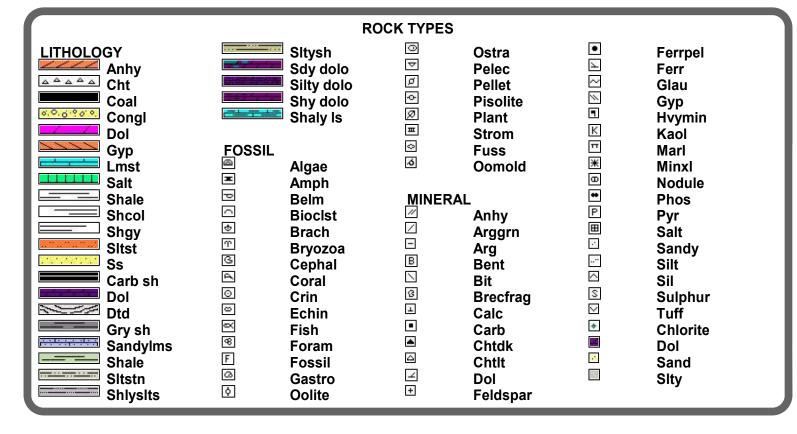
DST's by: Diamond Testing, Gene Gilpin, 620-617-4866 (cell).

Logs by: Pioneer (DI w/GR, CND, and Micro), Justin Henrickson, 785-625-3858 (office).

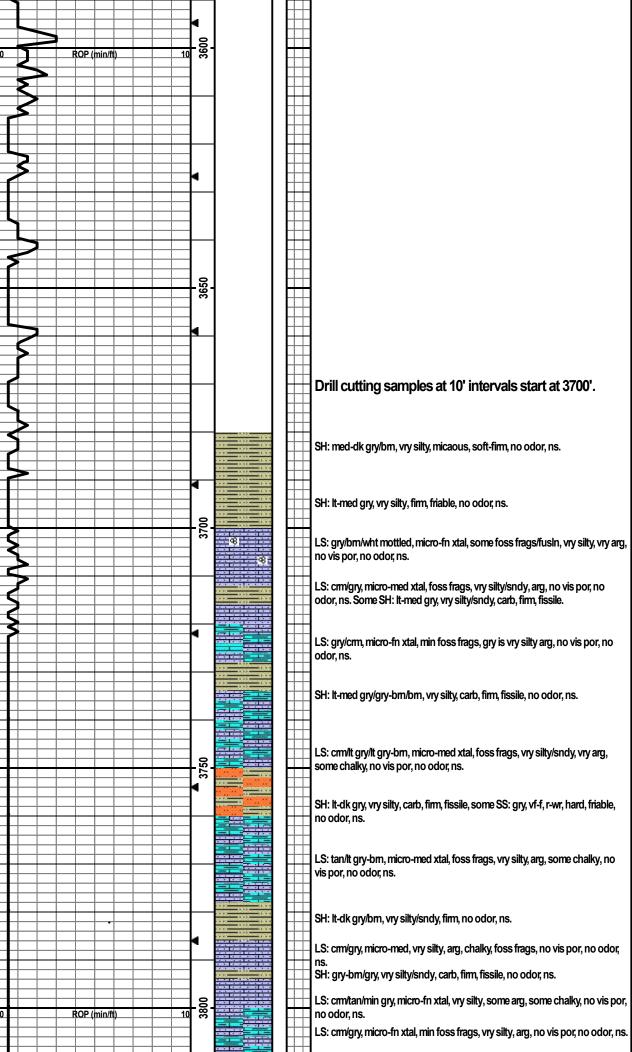
RTD= 4730' LTD= 4730'

FORMATION TOPS

FORMATION	DRMATION SAMPLE TOPS		LOG T	TOPS	
	Depth	Datum	Depth	Datum	
	•		•		
Stotler	3553'	-586	3553'	-586	
Heebner Shale	3934'	-967	3934'	-967	
Lansing	3973'	-1006	3975'	-1008	
Muncie Creek Shale	4152'	-1185	4151'	-1184	
Stark Shale	4251'	-1284	4250'	-1283	
Hushpuckney Shale	4296'	-1329	4296'	-1329	
Base of KC	4334'	-1367	4334'	-1367	
Marmaton	4366'	-1399	4365'	-1398	
Altamont	4391'	-1424	4390'	-1423	
Pawnee	4462'	-1495	4462'	-1495	
Myrick Station	4498'	-1534	4500'	-1536	
Fort Scott	4514'	-1547	4514	-1547	
Cherokee Shale	4540'	-1573	4540'	-1573	
Johnson	4580'	-1613	4581'	-1614	
Morrow	4611'	-1644	4611'	-1644	
Mississippian	4643'	-1676	4642'	-1675	
RTD	4730'	-1763		.0.0	
LTD	-T1 00	1100	4730'	-1763	



Rate of Penetration (ROP) ROP (min/ft)	Depth	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
0 ROP (min/ff) 10	34				Morning Report Depth/Activity (7:00 am) 06/30/2018, MIRU/Spud. 07/01, drilling @390'.	Note: Lost circulation at 3372'; 150 bbls of salt mud and 100 bbls of displacement mud.
					07/02, drilling @2535'. 07/03, drilling @3585'. 07/04, TOH DST#1 @3894'. 07/05, TIH after DST#2 @4016'. 07/06, drilling @4135'. 07/07, TOH DST#5 @4270'. 07/08, TOH DST#6 @4321'. 07/09, TIH after DST#7 @4455'. 07/10, TOH DST#8 @4600'.	Mud-Co/Service Mud Inc. Check #1 @ 0' 06/30/18, predrilling instructions. Mud-Co/Service Mud Inc. Check #2 @ 2642' 07/02/18 09:00am wt vis pH chl 9.1 37 7 39000 Filt LCM
	3450				07/11, drilling @ 4725'; TD @ 4730'; electric logged. Anhydrite: Top @ 2346', Base @ 2364' (based on drill time).	n/c 3 Mud-Co/Service Mud Inc. Check #3 @ 3659' 07/03/18 08:45am wt vis pH chl 8.7 55 11.5 2400 Filt LCM 6.8 4
					Formation tops and lithologies have been adjusted to correlate to the electric log.	Mud-Co/Service Mud Inc. Check #4@3894' 07/04/18 10:00am wt vis pH chl 8.9 67 11.0 4000 Filt LCM 7.2 4
						Mud-Co/Service Mud Inc. Check #5 @ 4016' 07/05/18 08:00am wt vis pH chl 9.1 56 11.0 4200 Filt LCM 7.2 3
	3500				ROP Data begins @ 3500' on 07/03/2018	Mud-Co/Service Mud Inc. Check #6 @ 4205' 07/06/18 10:50am wt vis pH chl 9.4 59 10.5 5000 Filt LCM 8.8 2
						Mud-Co/Service Mud Inc. Check #7 @ 4270' 07/07/18 08:40am wt vis pH chl 9.3 55 11.0 4500 Filt LCM 7.2 2
	4					Mud-Co/Service Mud Inc. Check #8 @ 4321' 07/08/18 10:20am wt vis pH chl 9.2 54 11.0 5500 Filt LCM 8.0 2
Stotler 3553 (-586)	3550					Mud-Co/Service Mud Inc. Check #9 @ 4480' 07/09/18 10:15am wt vis pH chl 9.3 61 10.5 6000 Filt LCM 9.6 2
						Mud-Co/Service Mud Inc. Check #10 @4600' 07/10/18 09:35am wt vis pH chl 9.2 67 11.0 6600 Fitt LCM 8.0 2
\$						Mud-Co/Service Mud Inc. Check #11 @ 4730' 07/11/18 09-20am



wt vis pH chl 9.4 55 10.5 5500 Filt LCM 8.8 2

Survey Record Deg @ Ft 0.2 @ 267' 0.5 @ 871' 0.3 @ 1379' 0.2 @ 1854' 0.1 @ 2769' 0.2 @ 3659' 0.4 @ 3881' 0.6 @ 4016' 0.3 @ 4210' 0.3 @ 4620' 0.5 @ 4730'

