#### KOLAR Document ID: 1423957

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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / 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:
Oil WSW SWD 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 #:	
SWD         Permit #:	Location of fluid disposal if hauled offsite:
EOR         Permit #:           GSW         Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East _ West
Recompletion Date Reached TD Completion Date of 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: 1423957

Operator Name:	Lease Name: Well #:
Sec TwpS. 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 Sheets)		Y	Yes No		Log Formation (Top), Dep			epth and Datum		
Samples Sent to Geological Survey			′es 🗌 No	Ν	lame	e		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:			<ul> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> </ul>							
		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:     Depth Top Bottom       Perforate     Protect Casing       Plug Back TD     Plug Off Zone		Туре	e of Cement	# Sacks Used		d Type and Percent Additives				
<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 Yes 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 Gravity				
DISPOSITION	I OF GAS:		M	ETHOD OF COM	<b>IPLE</b>	TION:			ON INTERVAL:	
Vented Sold (If vented, Subm	Used on Lease		Open Hole Perf.		Dually Comp.         Commingled           (Submit ACO-5)         (Submit ACO-4)		Тор	Top 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	Mull Drilling Company, Inc.
Well Name	JOHNSON FARMS 1-18
Doc ID	1423957

All Electric Logs Run

CDL/CNL
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	JOHNSON FARMS 1-18
Doc ID	1423957

## 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	12.250	8.625	23	215	60/40 Poz	230	2% gel, 33% cc
Production	7.875	5.500	17	4273	Proc C		10% salt, 2% gel, 5# kolseal/sx, 4% cc

# QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

SANTAN DE MARCE RESTO ENTREMENT

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

#### Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

- and the second se

Sec.	Twp.	Range	, (	County	State	On Location	Finish	
Date 6-20-18 18	305	7W	Kin	SMAN	Kb			
Lease Tomsons Farms W	/ell No.	I-13	Locatio	on				
Contractor PICKRELL Del	s. R	59.10		Owner	-			
Type Job SURFACE		To Quality W You are here	ell Service, Inc.	cementina equipmen	t and furnish			
Hole Size 12/4	T.D.	218		cementer an	d helper to assist ow	her or contractor to d	o work as listed.	
<u>Csg. 95/2 23</u>	Depth	2/5		Charge M	ULL Drilliga	Company I	21.	
Tbg. Size	Depth			Street	·	at.		
Tool	Depth	• ··· ··· ·· · · ·		City	n is no e stransmission	State	۲۵، ۵۹ میلاد (۲۰۱۰ ۲۵۵۵) ۱۰۰۰ - ۲۰۰۰ ۲۰۰۹ ویلومینی از ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ ۱۰۰۰ - ۲۰۰۰ - ۲۰۰۹ ویلومینی	
Cement Left in Csg. 25	Shoe J	oint		The above wa	is done to satisfaction ar	nd supervision of owner	agent or contractor.	
Meas Line	Displac	e 12 Bbb	·····	Cement Amo		<u>) ~ 60/00</u>		
EQUIPM	AENT	· · · · · · · · · · · · · · · · · · ·		21. GE	23466 1/41	CF	and the second sec	
Pumptrk & No. TS				Common /	33			
Bulktrk () No. mike				Poz. Mix	<u>42</u>		r.u	
Bulktrk No.			+ <sup>-</sup>	Gel.	4			
Pickup No. TODO				Calcium	<u> 8</u>			
JOB SERVICES	& REMA	RKS		Hulls				
Rat Hole				Salt				
Mouse Hole				Flowseal 57.5				
Centralizers				Kol-Seal				
Baskets				Mud CLR 48				
D/V or Port Collar				CFL-117 or CD110 CAF 38				
Kun 6 H 5 87/82	34000	SET) 2	15'	Sand				
(sq on Bottom		e		Handling 242				
Hook up to Crg				Mileage 4	· .			
BREAK CIRC				FLOAT EQUIPMENT				
Rom 12 80/1 1/23				Guide Shoe				
	<u>0/40</u>	21- FEL 31		Centralizer				
14'CF 1				Baskets				
Disp 12 136/1 H23				AFU Inserts				
Close VALUE ON (SQ ZI	<u>)0"</u>	<u> 8:30</u>		Float Shoe				
Rack p from clec the -53				Latch Down				
CILL CART to P.t				LMV 45				
		SERVICE SUPERVISSIC						
				Pumptrk Charge Sugare				
Thonk go				Mileage 90				
PLEASE CALL ASALIN						Tax		
V TO	<u> (wC</u>	E ME				Discount		
X Signature						Total Charge		

# QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

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Rich's Cell 620-727-3409 Brady's Cell 620-727-6964 6871

	Sec.	Twp.	Range	(	County	State	On Location	Finish	
Date 6-27-13	13	335	TW	Kinc	MAN	Ks			
Lease Johnson F	ell No.	1-1B	Locatio		Sto 150 RG	1 21/2 W VI	140		
Contractor PICKDELL DZ/g + 10					Owner	-	· · · ·		
Type Job 51/2 1.5	,	5			To Quality We You are here	ell Service, Inc.	cementing equipmen	t and furnish	
Hole Size 77/3 T.D. 4302'					cementer an	d helper to assist ow	ner or contractor to de	o work as listed.	
<u>Csg. 51/2 17"</u>		Depth	427366	\$	Charge M	ULL Dailling	Q G. Inc.	-	
Tbg. Size		Depth			Street	-	*		
Tool		Depth	· ·· ·· ··		City .	an - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	State		
Cement Left in Csg.		Shoe Jo	<u>23.27</u>	2	The above wa	s done to satisfaction a	nd supervision of owner	agent or contractor.	
Meas Line		Displac	<u>e 98.33</u>	Bols	Cement Amo	ount Ordered 130	SX PROC		
	EQUIPN	IENT	1		21. GeL	1246 Salt 5	-1/SX KOVERL		
Pumptrk & No.					Common	30			
	nice				Poz. Mix				
Bulktrk No.	· · · · · · · · · · · · · · · · · · ·				Gel. <u>3</u>	·			
Pickup No.	FOND				Calcium				
JOB SEI	RVICES	& REMA	RKS		Hulls				
Rat Hole 30 Se					Salt 19	***			
Mouse Hole					Flowseal				
Centralizers 1-2-3-4	-5.6-	7			Kol-Seal 9	22			
Baskets					Mud CLR 48	500 gal			
D/V or Port Collar					CFL-117 or	CD110 CAF 38			
Run 106 34 'S	<u>sh</u>	17 1	csg set )	<u>4273.</u>	(Sand CC	~ (			
CSG ON Botton	nC	NROG	Bo'll		Handling 2	32			
BREAK CIZL U	ol Ri	<u>a ('</u>	1/2 HRS-		Mileage - 4	<u> </u>		2.2 •	
STAR PUMPING 5	<u>Bbk 112</u>	-> 121	<u>84), MF 58</u>	1/12s	54	2 FLOAT EQUIPM	ENT	· · ·	
Plux R-hole 300	Χ				Guide Shoe	1 EA			
STAC Mix Romp	15055	DOWN	s 659.		Centralizer	<u>7 EA</u>			
SHOT DOWN Whith.	ptel	K RELE	AS 5hTE	Plus	Baskets				
STAR DISD	ŝ.			· •	AFU Inserts	I EA			
50 Bbl at Rom	to	OF W	NTER		Float Shee	DC. Rubber Plug	EA		
Got WOLEZ Back					Latch Down				
Disp tolal 911/2 Phils					LMV	45		·	
PSI ve 1900t					SERVICE	SUDEZUISOR		14 (1997) 1997 - 1997 1997 - 1997 - 1997 1997 - 1997 - 1997	
PELEPRE! HELD					Pumptrk Cha	irge 2.C			
			<u> </u>		Mileage 9	<u> </u>			
Think you TODD ive							Tax		
	AGAIN	<u> </u>	- Mire.				Discount		
X Signature 745 He	Q						Total Charge		

	OPERATO	DR		
Company: Address:	Mull Drilling 1700 N Waterfront PKW Wichita, KS 67206			
Contact Geologist: Contact Phone Nbr: Well Name: Location: API: Pool: State:	Rusty Mourning 316-264-6366 Johnson Farms 1-18 Sec.18 -T30S - R7W 15-095-22323-00-00 Spivey-Grabs-Basil Kansas	Field: Country:	Spivey-Grabs-Basil USA	
	M			
	Scale 1:240 In	nperial		
Well Name: Surface Location: Bottom Location:	Johnson Farms 1-18 Sec.18 -T30S - R7W			
Bottom Location: API:	15-095-22323-00-00			
License Number: Spud Date:	6/20/2018 Kingmon	Time:	12:15 AM	
Region: Drilling Completed: Surface Coordinates: Bottom Hole Coordinates:	Kingman 6/26/2018 1560' FNL & 990' FEL	Time:	8:11 AM	
Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	1471.00ft 1478.00ft 2900.00ft 4300.00ft Mississippi Chemical/Fresh Water G	To: el	0.00ft	
	SURFACE CO-OF	RDINATES		
Well Type: Longitude:	Vertical			
Latitude: N/S Co-ord: E/W Co-ord:	1560' FNL 990' FEL			
	LOGGED	BY		
	ווחוו	KER		
	GEO CONSU	JLTING		
Company: Address:	Walker Geo Consulting 209 Lioba Dr. Andover, KS 67002			
Phone Nbr: Logged By:	316-371-0249 Geologist	Name:	Logan Walker	
 	CONTRACT	TOR		

Rig #:	Pickrell Drilling Company, Inc.			
Rig Type: Spud Date:	mud rotary 6/20/2018	Time:	12:15 AM	
	6/26/2018	-	8:11 AM	
Rig Release:		Time:		

#### **ELEVATIONS**

K.B. Elevation:	1478.00ft
K.B. to Ground:	7.00ft

Ground Elevation: 1471.00ft

#### NOTES

No DST's were preformed on this well.

The Samples from this well were saved and were delivered to the Mull Drilling office located in Wichita, Kansas.

Respectfully submitted by, Logan Walker

# **Mull Drilling Company, Inc.** daily drilling report

DATE	7:00 AM DEPTH	REMARKS
06/23/2018		Geologist Logan Walker on location @ 1340 hrs, 2904 ft, displaceed mud @3100 ft, jetted at @3110' 3115' 3120', drilling ahead Heebner
06/24/2017	3445	Drilling ahead Lansing, Stark
06/25/2018	3982	Drilling ahead Base KC, Cherokee, Mississippian, jetted water off the mud pits to reserve pit due to heavy rain @3917', TOH for bit trip @4192', TIH
06/26/2018	4280	TIH, Drilling ahead to RTD, RTD @4300' 0811 hrs, TOH for logging, Loggers onsite 1105 hrs, Logged TD @4302', Loggers offsite 1753 hrs, geologist offsite hrs

				ing C ompar	-			
		DRILLING W	ELL			COMPARIS	ON WELL	
Johnson Farms 1-8 1650' FNL & 990' FEL Sec 18-T30S-R07W					T Jaden "C" #3 1980' FNL & 660' FWL Sec 18-T305-R07W			
	1478	KB			1482	KB	Struct Relatio	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Heebner	3124	-1646	3126	-1648	3128	-1646	0	-2
Lansing	3329	-1851	3336	-1858	3348	-1866	15	8
Stark	3756	-2278	3777	-2299	3776	-2294	16	-5
Base KC	3862	-2384	3871	-2393	3882	-2400	16	7
Cherokee	4003	-2525	4024	-2546	4022	-2540	15	-6
Mississppian	4132	-2654	4132	-2654	4145	-2663	9	9
Total Depth	4300	-2822	4302	-2824	4400	-2918	96	94

~	$\Delta$	~	$\Delta$	Cht

Lmst fw7>



Sltst





Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white to sub opac pink chert, soft to dense, no shows

Limestone, white to sub cream, microcrystalline, bioclastic, fossiliferous, pyritic, opac chert, soft to dense, no shows

Limestone, white to sub cream, microcrystalline, bioclastic, fossiliferous, sub pyritic, white to opac pink chert, soft to dense, no shows

Total Gas (units)

C2 (units)

C3 (units)

C4 (units)

Mudding up @3100

Jet @3110'

Jet @3115'

Jet @3120'

10

100

100

shale, light gray to medium gray to red to trace pale green, silty, soft to dense

shale, gray to dark gray to red to trace pale green, silty, angular, layered soft to dense

shale same as above

shale, gray to dark gray to red to trace pale green, silty, angular, layered, pyritic, soft to dense

shale, gray to dark gray to red to trace pale green, silty, pyritic, soft to dense, sub gummy

shale, gray to dark gray to red to trace pale green, silty, pyritic, soft to dense, sub gummy

Limestone, white to cream, microcrystalline, bioclastic, fossiliferous, white to opac pink to opac yellow chert, surface etching, soft to dense, no shows

#### Heebner 3124' -1646 Log Top 3126' -1648

Shale, black carbonaceous

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Limestone, tan to brown, microcrystalline, fossiliferous, brown to opac chert, pyritic, dense, no shows

Limestone, cream, microcrystalline, fossiliferous, white chert, pyritic, dense, trace chalky, no shows

Shale, gray to sub red and pale grean, silty to sandy, sub pyritic

Shale, gray to sub red and pale grean, silty to sandy, sub pyritic, sub gummy

Sandstone, clear to cloudy, fine grain, sub rounded to sub angular, well cemented, well sorted, siltstone, shale gray to sub red, sub gummy



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Shale, grayto dark gray to sub red and pale grean, silty to sandy, sub gummy

Sandstone, clear to cloudy, fine grain, sub rounded to sub angular, well cemented, well sorted, siltstone, shale gray to sub red, sub gummy

Shale, gray to dark gray to sub red and pale grean, silty to sandy, sub gummy

Sandstone, clear to cloudy, fine grain, sub rounded to sub angular, well cemented, well sorted, siltstone, shale gray to sub red to trace pale green, gummy

Sandstone, clear to cloudy, fine grain, sub rounded to sub angular, well cemented, well sorted, siltstone, trace glauconite, trace pyritic, trace dead staining, no shows, shale gray to sub red to trace pale green, gummy

Sandstone, clear to cloudy, fine grain, sub rounded to sub angular, well cemented, well sorted, siltstone, glauconite, pyritic, dead staining, no shows, shale gray to sub red to trace pale green, gummy

Sandstone, clear to cloudy, fine grain, sub rounded to sub angular, well cemented, well sorted, siltstone, glauconite, pyritic, dead staining, no shows, shale gray to sub red to trace pale green, gummy

Sandstone, clear to cloudy, fine grain, rounded to sub angular, well cemented, well sorted, siltstone, pyritic, shale gray to sub red to trace pale green, gummy

#### Lansing 3329' -1851 Log Top 3336' -1858

Limestone, cream, microcrystalline, fossiliferous, soft to dense, surface etching, no shows

Limestone, cream, microcrystalline, fossiliferous, soft to dense, pyritic, surface etching, no shows

Limestone, cream, microcrystalline, fossiliferous, soft to dense, pyritic, cream angular chert, surface etching, no shows

Shale, gray to dark gray to red to trace pale green, sub soft to dense, sub silty

Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, brown angular chert, sub chalky, no shows

Limestone, same as above

Shale, gray to dark gray to red to trace pale green, sub soft to dense, sub silty, sub gummy





Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, brown angular chert, sub chalky, no shows

Shale, gray to dark gray to red to trace pale green, sub soft to dense, sub silty

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Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, brown angular chert, crinoid, pyritic, sub chalky, no shows

Shale, gray to dark gray to trace red, sub soft to dense

Limestone, cream to tan, microcrystalline, fossiliferous, firm to dense, brown angular chert, sub pyritic, no shows

Shale, gray to dark gray to trace red, sub soft to dense

Limestone, cream to tan, microcrystalline, fossiliferous, firm to dense, brown angular chert, no shows

Shale, gray to dark gray to trace red, sub soft to dense

Limestone, cream to tan, microcrystalline, fossiliferous, firm to dense, brown angular chert, crinoids, no shows

Shale, gray to dark gray to trace red, sub soft to dense

Limestone, cream, microcrystalline, fossiliferous, firm to dense, opac angular chert, pyritic, no shows

Limestone, cream to tan, microcrystalline, fossiliferous, firm to dense, sub oolitic, gastropod, opac orange chert, no shows

Shale, gray to dark gray to trace red, firm to dense, sub silty

Limestone, cream to tan, microcrystalline, fossiliferous, firm to dense, sub chalky, opac chert, no shows

Limestone, cream, microcrystalline, fossiliferous, firm to dense, weathered, surface etching, no shows

Limestone, cream, microcrystalline, fossiliferous, firm to dense, weathered, surface etching, opac chert, no shows

Shale, gray to dark gray to trace red, firm to dense, sub silty

Limestone, cream to tan, microcrystalline, fossiliferous, sub bioclastic, firm to dense, sub pyritic, no shows

Shale, gray to dark gray to trace red, soft to dense, sub silty

Limestone, cream to tan, microcrystalline, fossiliferous, firm to dense, sub chalky, no shows

Limestone, cream to tan to light gray, microcrystalline, fossiliferous, soft to dense, sub chalky, surface etching, no shows

Shale, gray to dark gray to trace red, soft to dense, sub silty

Limestone, tan to light gray, microcrystalline, fossiliferous, soft to dense, crinoid, no shows

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		d-C 347			hk			
	084	15 h	rs. 6	5/23	/18			
_	WL	. 49 14 .9.2	-	15				
	Cal pH	ke -, 9.2	32,					
	CH Ca	L 60 80	000 ppm					
	DM	6.1 C\$	1,7:	80.6	9			
	GIV	C\$	7,48	<del>4</del> .7	9			
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0	Т	otal	Ga	s (u	inits	5)		100
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Limestone, tan to light gray, microcrystalline, tossiliterous, soft to
dense, crinoid, pyritic, sub chalky, no shows

Limestone, cream to tan, microcrystalline, fossiliferous, soft to dense, crinoid, pyritic, surface etching, pin hole vug, sub chalky, no shows

Shale, gray to dark gray, to trace red, soft to dense

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Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, surface etching, sub chalky, no shows

Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft, weathered, surface etching, white chert, sub chalky, no shows

Shale, gray to dark gray, to trace red, soft to dense

Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, surface etching, white chert, sub chalky, no shows

Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, surface etching, pin hole vugs, no shows

Shale, gray to dark gray, to trace red, soft to dense

Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, weathered, surface etching, pin hole vugs, sub oolitic, no shows

Limestone, white to cream, microcrystalline, fossiliferous, bioclastic, soft to dense, surface etching, pin hole vugs, sub oolitic, no shows

Shale, gray to dark gray, to trace red, soft to dense

#### Stark 3756' -2278 Log Top 3777 -2299

Shale, black carbonaceous

Limestone, white to cream, microcrystalline, fossiliferous, soft to dense, sub pyritic, no shows

Limestone, cream, microcrystaline, fossiliferous, soft to dense, sub chalky, no shows

Shale, black carbonaceous

Shale. gray to dark gray, soft to dense

Limestone, white to cream, microcrystaline, fossiliferous, soft to dense, surface etching, no shows

Limestone, cream, microcrystaline, fossiliferous, soft to dense, opac orange chert, sub chalky, no shows

sandstone stringer, clear, large grain, rounded, no cementation

Sale, gray to dark gray, soft to dense, sub gummy

Limestone, cream, microcrystaline, fossiliferous, sub bioclastic, soft to dense, weathered, surface etching, sub chalky, no shows

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6/26/18 30/60 min 4300	chert, weathered, intercrystalline, dense, chalky, no shows			
	RTD 4300' 0811 hrs 6/26/18 Logged TD @ 4302'			