KOLAR Document ID: 1632854

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 &	LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R East 🗌 West
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 #	
Name:	(e.g. xx.xxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workove	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas DH EOR	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.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
Well Name:	
Original Comp. Date: Original Total Depth:	
Plug Back Liner Conv. to GSW Co	
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	
	Quarter Sec TwpS. R East West
Spud Date or Date Reached TD Completion	n Date or
Recompletion Date Recompletion	ion 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: 1632854

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 Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (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	Туре	Type of Cement # Sacks		Used Type a			and Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
2. Does the volume of the	1. Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3) 2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No (If No, skip question 3) 3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No (If No, fill out Page Three of the ACO-1)								
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water Bbls. Gas-Oil Ratio		Gravity		
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:			DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease	Open Hole Perf. Dually Comp. Commingled Top E (Submit ACO-5) (Submit ACO-4)			Bollom				
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion		
Operator	Mull Drilling Company, Inc.		
Well Name	NUTTLE #1-7		
Doc ID	1632854		

All Electric Logs Run

DIL
Density-Neutron
Sonic
Microlog

Form	ACO1 - Well Completion		
Operator	Mull Drilling Company, Inc.		
Well Name	NUTTLE #1-7		
Doc ID	1632854		

Tops

Name	Тор	Datum
Stone Corral	2068	598
Heebner	3894	-1228
Lansing	3932	-1266
ВКС	4236	-1570
Marmaton	4288	-1622
Fort Scott	4436	-1770
Cherokee	4463	-1797
Mississippi	4534	-1868

Form	ACO1 - Well Completion		
Operator	Mull Drilling Company, Inc.		
Well Name	NUTTLE #1-7		
Doc ID	1632854		

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugTyp e	BridgePlugSet At	Material Record
4	4538	4548	CIBP Cast Iron Bridge Plug	4520	
4	4456	4460	CIBP Cast 4150 Iron Bridge Plug		
4	4188	4222	CIBP Cast Iron Bridge Plug	4150	300 gals. 15% MCA
4	4156	4168	CIBP Cast Iron Bridge Plug	4150	500 gals. 15% MCA
4	4118	4122			
4	4096	4100			250 gals. 15% MCA
4	4082	4088			500 gals. 15% MCA

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	NUTTLE #1-7
Doc ID	1632854

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	220	Class A	175	2% CC, 3% Gel
Production	7.875	5.5	17	4653	SMD & 50/50 Pozmix	505	

QUAL		OILW Feder	ELL al Tax I.	_ CF D.# 20-:	EMENT 2886107	ING, IN	IC.
Phone 785-483-1071 Cell 785-324-1041	H	ome Office	P.O. Box	32 Ru	ssell, KS 67665	No	. 2678
Date / 2-20-2/ Sec	z. Twp. 7 16	Range 76	Cou NC	-	State	On Location	7,00pm
,			Location	Utici	, 3W 3.3	3 N	
Lease NoHle		Well No.]	-7	wner			
Contractor PUKe			To Yo	Quality Cou are here	ilwell Cementing, Inc	cementing equipme	nt and furnish
Type Job SURFAC	l				nd helper to assist ow	ner or contractor to	do work as listed.
Hole Size d t/	T.D.			harge	NUI DRI	<u>ç Co</u>	
Csg. 8-8	Depth	·····	S	reet			
Tbg. Size	Depth		Ci	ty		State	
Tool	Depth		Tł	ie above wa	as done to satisfaction a	and supervision of own	er agent or contracto
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No. Driver Bulktrk Driver		CLINC		el.	3		
Bulktrk 9 No. Driver		Torde	ala C	alcium	7		
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Mouse Hole				ol-Seal	······		
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x Signature	501102			-	X	Total Charge	•

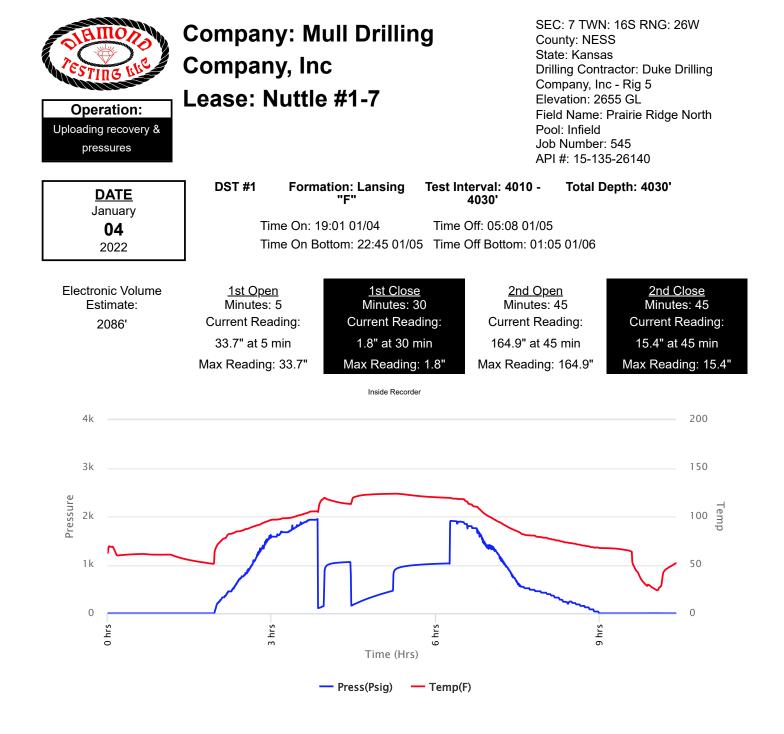
Thank You!				APPROVAL		AVID EDGERTONS	SWIFT OPERATOR -
10.10	and services listed on th	t of the materials a	wledges receipt	OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.	CE OF MATERIAL	CUSTOMER ACCEPTANCE	
TOTAL 232121/16		CUSTOMER DID NOT WISH TO RESPOND		100-2-00	P.M.		7
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TOTAL 21215 00			MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY?	SWIFT SERVICES, INC.		NTY provisions.	LIMITED WARRANTY provisions
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	Drillin		1-7		Νυπει	
HART NO.	TIME	C RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
	030					on location
						5% × 17#
						RTD- 4670 LTD 4672
						TOTAL PIPE - 4660
						SHOE - 44! BAFFIE & 4616
	·					CENTRALIZERS- 1-12 34,61
						BASKETS - 7, 35, 62
						, , ,
	1245					START OSQ
	1530					START CIRC
	1700	n	8		0	plug rat Hole - 30 sx
		2	4		0	plug MOUSE hole- 20 sx
		6	24		300	pump Flocheck
		6	20		300	DUMD KEL SPALER
		7	900 0		400	START CAT 350 SX SMD @ 11.2
		5	195		200	END SMD-START SO/SOG 14.6
		5	230			END CMT 1
						Drop plug - WASH P+L
		7	0			STARY Disp
		5.5	107		1200	land plug @ 1700 #
						JET CELLAR - CALT'IN BOHON
						JOB COMPLETE
						Thanks
						DAVID, SETH, JSAAC, MARK, ShA
						DELLEY CENTRY CHARCE, MARCE, M

Thank You!						Just AFFROVAL	Judeen	
	on this ticket.	ges receipt of the materials and services listed on this ticket.	' the materials ar	vledges receipt of	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowled	TANCE OF MATERIALS AND		SWIET OPERATOR
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DATE PAGE NO.		V						



Operation: Uploading recovery pressures	Co Lea	mpany: N mpany, In ase: Nuttl	C	ng	Cc Sta Dr Cc Ele Fie Pc Jo	EC: 7 TWN: 1 punty: NESS ate: Kansas illing Contrac ompany, Inc - evation: 2655 eld Name: Pra ool: Infield b Number: 54 Pl #: 15-135-2	tor: Duke Dri Rig 5 GL airie Ridge N 45	lling
DATE		DST #1 Form	nation: Lansing "F"		val: 4010 - 30'	Total Dep	th: 4030'	
January 04		Time On:	1 9:01 01/04		: 05:08 01/0	5		
2022		Time On E	Bottom: 22:45 01/0	05 Time Off	Bottom: 01:	05 01/06		
Recove	red							
<u>Foot</u>	BBLS	Description	of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water	<u>%</u> Muc	<u> %</u>
1300	18.499	G		100	0	0	0	
25	0.35575	SLOC	M	0	8	0	92	2
350	4.9805	SLMCSL	GCO	4	93	0	3	
155	2.20565	SLWCSL	GCO	13	83	4	0	
250	3.5575	SLMCWO	GCO	22	55	21	2	
315	4.48245	SLGCSLMC	SLOCW	2	3	93	2	
Total Recovere Total Barrels R			Reversed Out NO	20	Recove	ery at a glar	nce	
Initial Hydrostat	ic Pressure	1934	PSI					
-	Initial Flow	108 to 151	PSI	10				
Initial Closed in	n Pressure	1060	PSI					
Final Flo	w Pressure	161 to 468	PSI					
Final Closed in	n Pressure	1025	PSI	0		Re	ecovery	
Final Hydrostati	c Pressure	1911	PSI					
Т	emperature	124	°F		Gas 58.27%	● Oil 25.18%	Water 14.68%	Mud 1.87%
Pressure Ch Close /	ange Initial Final Close	3.4	%	GIP cubic foo	t volume: 111	.48855		

Operation: Uploading recovery & pressures	Compan	y: Mull Drillin y, Inc luttle #1-7	g	SEC: 7 TWN: 16S RNG: 26W County: NESS State: Kansas Drilling Contractor: Duke Drilling Company, Inc - Rig 5 Elevation: 2655 GL Field Name: Prairie Ridge North Pool: Infield Job Number: 545 API #: 15-135-26140
DATE January	DST #1	Formation: Lansing "F"	Test Interval: 4010 4030'	- Total Depth: 4030'
04	Tir	ne On: 19:01 01/04	Time Off: 05:08 01	/05
2022	Tir	ne On Bottom: 22:45 01/0	5 Time Off Bottom: 0	1:05 01/06
BUCKET MEASUREMENT 1st Open: 2 1/4" blow bu		2 min.		

1st Close: 1 1/2" B B 2nd Open: 1/2" blow building to BOB 4 min. 2nd Close: BOB 40 min.

REMARKS:

Tool Sample: 8% Gas 91% Oil 0% Water 1% Mud

Gravity: 39.3 @ 60 °F

Ph: 6.0

Measured RW: .21 @ 60 degrees °F

RW at Formation Temp: 0.107 @ 124 °F

Chlorides: 51,000 ppm

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Operation: Uploading recovery & pressures

Company: Mull Drilling Company, Inc

Lease: Nuttle #1-7

SEC: 7 TWN: 16S RNG: 26W County: NESS State: Kansas Drilling Contractor: Duke Drilling Company, Inc - Rig 5 Elevation: 2655 GL Field Name: Prairie Ridge North Pool: Infield Job Number: 545 API #: 15-135-26140

DATE	
January	
04	
2022	

Formation: Lansing "F" DST #1

Test Interval: 4010 -4030'

Total Depth: 4030'

Time On: 19:01 01/04 Time On Bottom: 22:45 01/05 Time Off Bottom: 01:05 01/06

Time Off: 05:08 01/05

Down Hole Makeup

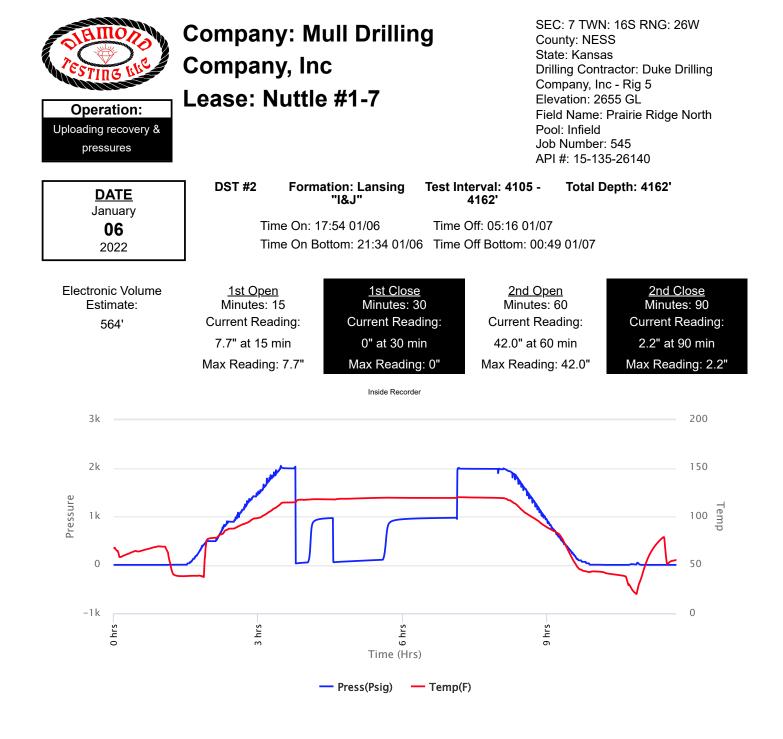
Heads Up:	28.89 FT	Packer 1:	4005 FT
Drill Pipe:	4006.32 FT	Packer 2:	4010 FT
ID-3 1/2		Top Recorder:	3994.42 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4012 FT
Collars:	0 FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool:	33.57 FT	Bottom Choke:	5/8"
ID-3 1/2-FH Jars			
Safety Joint			
Total Anchor:	20		
	<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	19 FT		

Operation: Uploading recovery & pressures	Compan	y: Mull Drilling y, Inc luttle #1-7	g Co Sta Dri Co Ele Fie Po Jo	C: 7 TWN: 16S RNG: 26W punty: NESS ate: Kansas illing Contractor: Duke Drilling ompany, Inc - Rig 5 evation: 2655 GL eld Name: Prairie Ridge North ol: Infield b Number: 545 PI #: 15-135-26140
DATE January	DST #1	Formation: Lansing "F"	Test Interval: 4010 - 4030'	Total Depth: 4030'
04	Tir	me On: 19:01 01/04	Time Off: 05:08 01/05	5
2022	Tir	me On Bottom: 22:45 01/05	Time Off Bottom: 01:0	05 01/06
	_	Mud Proper	ties	
Mud Type: Chemical	Weight: 9.0	Viscosity: 46	Filtrate: 7.2	Chlorides: 2,600 ppm

Operation: Uploading recovery & pressures	Compan	y: Mull Drillin y, Inc Nuttle #1-7	I G CS S D C E F J J	EC: 7 TWN: 16S RNG: 26W ounty: NESS tate: Kansas rilling Contractor: Duke Drilling ompany, Inc - Rig 5 levation: 2655 GL ield Name: Prairie Ridge North ool: Infield ob Number: 545 PI #: 15-135-26140
DATE January	DST #1	Formation: Lansing "F"	Test Interval: 4010 - 4030'	Total Depth: 4030'
04	Ti	me On: 19:01 01/04	Time Off: 05:08 01/0	5
2022	Ti	me On Bottom: 22:45 01/0	5 Time Off Bottom: 01	:05 01/06

Gas Volume Report

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



resting the	Company Company Lease: Nu		ng	Co Sta Dril Co Ele Fie Poo Job	mpany, Inc - F vation: 2655 (or: Duke Drilling Rig 5 GL rie Ridge North	
DATE	DST #2	Formation: Lansing "I&J"	Test Interva 416		Total Depti	h: 4162'	
January				-			
06		On: 17:54 01/06	-	05:16 01/07			
2022	Time	On Bottom: 21:34 01/	06 Time Off E	Bottom: 00:4	9 01/07		
Recovered							
Foot BBLS	Descri	otion of Fluid	Gas %	Oil %	Water %	Mud %	
420 5.9766		G	100	0	0	0	
145 2.0633	5 SL	GCOCM	5	25	0	70	
65 0.9249	5 SLGCSL	MCW (trace O)	3	.3	78.7	18	
Total Recovered: 63 Total Barrels Recove		Reversed Out NO	5	Recove	ry at a gland	Ce	
Initial Hydrostatic Pres	sure 2005	PSI					
Initial F	Flow 30 to 52	PSI	- а 2.5 — — —				
Initial Closed in Press	sure 966	PSI				_	
Final Flow Pres	sure 55 to 10	6 PSI					
Final Closed in Press	sure 973	PSI	0		Rec	covery	
Final Hydrostatic Press	ure 2002	PSI)	
Tempera	ture 120	°F	•	Gas 68.13%	• Oil • • • • • • • • • • • • • • • • • • •	Water • Mu 8.12% 17.	d 97%
Pressure Change Ir Close / Final C		%	GIP cubic foot	volume: 34.2	9065		



1st Open: 1/2" blow building to 8" 1st Close: No BB 2nd Open: 1" blow building reaching BOB 14 1/2 min. 2nd Close: 2' BB

REMARKS:

Tool Sample: 0% Gas .3% Oil 98.7% Water 1% Mud

Ph: 6.0

Measured RW: .29 @ 45 degrees °F

RW at Formation Temp: 0.118 @ 120 °F

Chlorides: 41,000 ppm

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rec	×	
	TING	

Operation: Uploading recovery & pressures

Company: Mull Drilling Company, Inc Lease: Nuttle #1-7

SEC: 7 TWN: 16S RNG: 26W County: NESS State: Kansas Drilling Contractor: Duke Drilling Company, Inc - Rig 5 Elevation: 2655 GL Field Name: Prairie Ridge North Pool: Infield Job Number: 545 API #: 15-135-26140

DATE	
January	
06	
2022	

DST #2 Formation: Lansing "l&J"

Test Interval: 4105 -4162'

Total Depth: 4162'

Time On: 17:54 01/06 Time On Bottom: 21:34 01/06 Time Off Bottom: 00:49 01/07

Time Off: 05:16 01/07

Down Hole Makeup

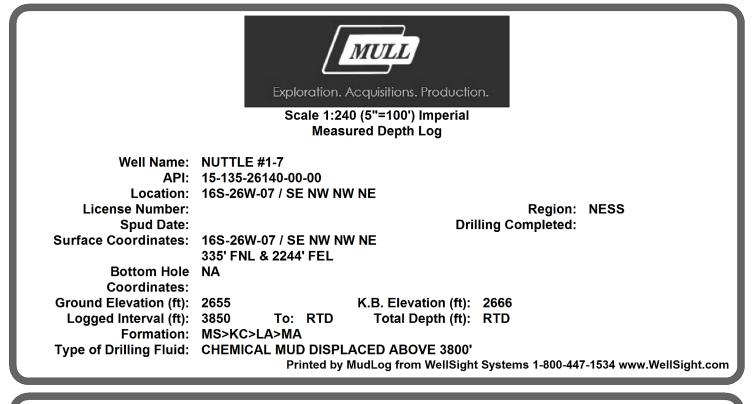
Heads Up:	28.34 FT	Packer 1:	4099.76 FT
Drill Pipe:	4100.53 FT	Packer 2:	4104.76 FT
ID-3 1/2		Top Recorder:	4089.18 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	4145 FT
Collars:	0 FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH	33.57 FT	Bottom Choke:	5/8"
Jars			
Safety Joint			
Total Anchor:	57.24		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	5 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/2	31.24 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	18 FT		

Operation: Uploading recovery & pressures	Compan	y: Mull Drillin y, Inc luttle #1-7	g 5 6 7 7 7 7 7 7 7 7 7	EC: 7 TWN: 16S RNG: 26W County: NESS State: Kansas Orilling Contractor: Duke Drilling Company, Inc - Rig 5 Elevation: 2655 GL Field Name: Prairie Ridge North Pool: Infield ob Number: 545 PI #: 15-135-26140
DATE January	DST #2	Formation: Lansing "I&J"	Test Interval: 4105 - 4162'	Total Depth: 4162'
06	Tin	ne On: 17:54 01/06	Time Off: 05:16 01/0	70
2022	Tim	ne On Bottom: 21:34 01/06	3 Time Off Bottom: 00	2:49 01/07
	-	Mud Prope	rties	
Mud Type: Chemical	Weight: 9.05	Viscosity: 49	Filtrate: 6.4	Chlorides: 3,300 ppm

Operation: Uploading recovery & pressures	Compan	iy: Mull Drillin iy, Inc Nuttle #1-7	I G Co Sta Dri Co Ele Fie Po Jol	C: 7 TWN: 16S RNG: 26W unty: NESS ate: Kansas lling Contractor: Duke Drilling mpany, Inc - Rig 5 evation: 2655 GL ed Name: Prairie Ridge North ol: Infield o Number: 545 I #: 15-135-26140
DATE January	DST #2	Formation: Lansing "I&J"	Test Interval: 4105 - 4162'	Total Depth: 4162'
06	Ti	me On: 17:54 01/06	Time Off: 05:16 01/07	
2022	Ti	me On Bottom: 21:34 01/0	6 Time Off Bottom: 00:4	9 01/07

Gas Volume Report

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



OPERATOR

Company: MULL DRILLING COMPANY Address: MULL DRILLING COMPANY

GEOLOGIST

Company: Address:

Name: Blake Miller Blake S. Miller - Wellsite & Consulting Geologist 235 N. Zelta Wichita, KS 67206

COMMENTS

Surface Casing: 6 joints 8 5/8" 20# surf csg (236.49' tally) set @ 244', w/ 170 sx common.

Production Casing:

Deviation Surveys:

Pipe Strap @ 4031': 4045.50 - 4044.76 (BOARD) = 0.74' LONG

Contractor Bit Record:

#1) 12 1/4" PDC, BBS11466, 7-13s JET, IN @ 0, OUT @ 220', MADE 220'/1 hr, 220 ft/hr.

#2) 7 7/8" PDC, JV5340, 5-13s JET, IN @ 220', OUT @ 3826', MADE 3606'/46.25 hr, 77.9 ft/hr

#3) 7 7/8" TRI-CONE, RP0771, 3-14s JET, IN @ 3826', OUT @ _

Gas Detector: Mud System: DSTs:

DIAMOND TESTING: TIM (TESTER)

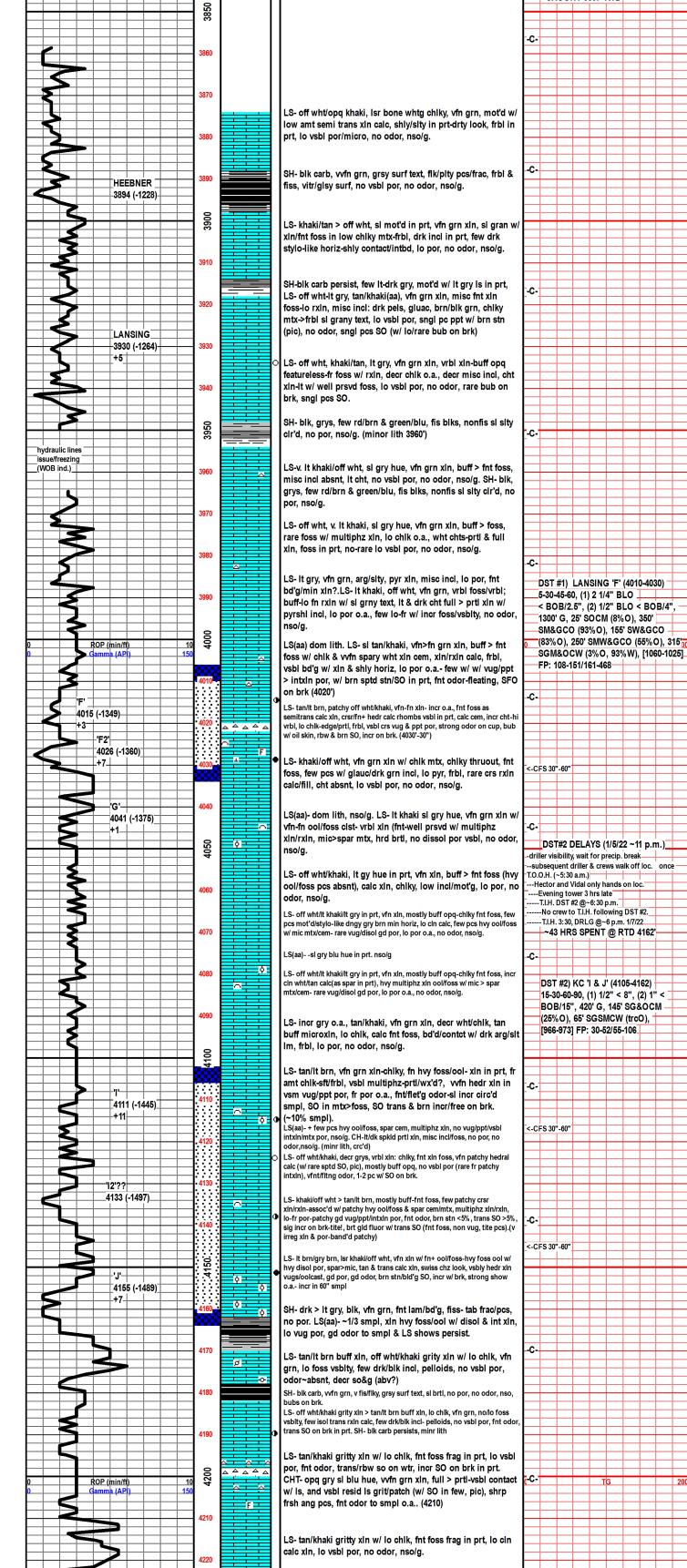
DSTs

DST #1) LANSING 'F' (4010-4030) 5-30-45-60, (1) 2 1/4" BLO < BOB/2.5", (2) 1/2" BLO < BOB/4", 1300' G, 25' SOCM (8%O), 350' SM&GCO (93%O), 155' SW&GCO (83%O), 250' SMW&GCO (55%O), 315' SGM&OCW (3%O, 93%W), [1060-1025] FP: 108-151/161-468

DST #2) KC 'I & J' (4105-4162) 15-30-60-90, (1) 1/2" < 8", (2) 1" < BOB/15", 420' G, 145' SG&OCM (25%O), 65' SGSMCW (trcO), [966-973] FP: 30-52/55-106

	CREWS								
TOOL PUSHER: HECTOR TORRES DAYLIGHT DRILLER: JOHN (WALKED OFF LOCATION W/ DERRICK & SAMPLE HAND) EVENING DRILLER: ROSS									
	*2X12 hr SHIFTS (then 1X12hr) **~43 HRS SPENT @ RTD 4162'								
	R'	OCK TYPES							
Anhy Anhy Bent Cht Clyst Coal	Shy dolo Dol Gyp Sdy Imst Lmst TTTTT MrIst	Sitst Ss Black sh Gry sh Shale Shysitst	Shale 3 Silty dol Dol Imst Dol 2 Granite wash Lmst						

Coal Congl	Salt	Sltysh	Calc dol
MINERAL ☑ Anhy ☑ Arg ☑ Bent ☑ Brecfrag ☑ Brecfrag ☑ Brecfrag ☑ Calc ☑ Carb ☑ Chtdk ☑ Chtlt ☑ Dol ☑ Ferrpel ☑ Ferr ☑ Glau ☑ Gyp ☑ Marl ☑ Nodule ☑ Phos ☑ Salt ☑ Sandy ☑ Silt	 Chlorite Dol Sand Slty FOSSIL Algae Algae Algae Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Fish Foram Fossil Gastro Oolite Ostra 	ACCESSORIES Pelec Pellet Pisolite Plant Strom Fuss Oomoldic STRINGER Anhy Arg Bent Coal Dol Gyp Ls Mrst Sitstrg Carbsh Clystn Dol	Grysh Gryslt Lms Sandylms Sh Sltstn TEXTURE S Boundst C Chalky C Cryxln E Earthy S Finexln S Grainst Lithogr Microxln S Mudst P Packst S Wackest
Curve Track 1 ROP (min/ft) Gamma (API)	Lithology	Geological Descriptions	TG, C1-C5 TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
0 ROP (min/ft) 115 -	3700 3650 3650	MULL DRILLING COMPANY NUTTLE #1-7 16S-26W-07 / SE NW NW NE 335 FNL & 2244 FEL NESS COUNTY, KANSAS GR: 2655 KB: 2666' 	
	3830 3840		BIT TRIP @ 3826' PDC OUT, TRI-CONE IN GEOLOGIST BLAKE S. MILLER ON -LOCATION @ 11 P.M. 01/03/2022 -10' SAMPLING & DRILL TIME CAUGHT 3857'-RTD



	4230		, no odor, nso/g.	-C-						\rightarrow	\rightarrow		
4234 (-1568)				-						\pm	\pm		
	4240		SH- blk carb > lt/drk gry, lo rd/brn, vvfn grn, fnt bd'g, fiss, flky/plty pcs/frac, sl tab grys, frbl/sft, no por, no odor, nso/g.							_	_		
			inty/pity positiac, si tab grys, inbirsit, no poi, no odor, itsorg.					SA		_	+		_
	9							SAMPLE		+	+		
	4250							S		_	_		_
								Ŋ		=	#		
	4260		??SH- vri'd clr/drty wtr; grys, blks, rd/b rns, lsr purpl mroon					Σ		_	_		
			teal, rust cir'd wtr, no por, no odor, nso/g. LS- tan/itbrn, vfn	-C-				LABELED		_	_		
			xIn, tan ~cIn calc w/ patchy bryoz/coral foss struct w/ blk tarry SO. (pic, depth?)					0		\pm	+		_
<u> </u>	4270		······································					(4250-4290)		\pm	+		
<u> </u>								42		\pm	_		
	4280		SH- rd/brn, grys, blk, vvfn-vfn grn, micas, fiss in prt, sft wxy					<u> </u>			_		
4284 (-1618)			frbl, mot'd w/ ls in prt, no vsbl por, no odor, nso/g.							\pm	+		
+0										\pm	_		
	4290									_	_		_
			LS- tan/lt brn, vfn xln, rare fn xln-crsr foss frag/calc xln, bnd'd ~hedr calc xln-tan & semitrans (W/ incr por & drkr brn-stn?), misc incl, surf shl contact	-C-						\pm	_		_
	4300		in prt, lor por o.asingl pcs coral/bryoz w/ gd 'columnar'/'coraline' por (pic),							_	_		_
	4	•	brn stn in crs xIn bnd, singl hvy foss pc w/ tarry blk SO(acct w/ depth?).							\pm	+		
										\pm	_		
	4310		LS- khaki/off wht w/ chlk, tan/lt brn w/ incr tan xin calc, vfn grn xin, few drk incl/pells chlky pcs, fnt foss, frbl in prt,							_	+		
		•	shly/gry is contact, io-fr por w/ incr/crsr xin calc (@ contact							\pm	_		
	4320		in prt), no odor, SO in prt-chlky & tan calc xln.							\pm	_		
										\pm	+		
			LS- off wht, It khaki, vfn grn, chlky, fnt foss cont, decr cln xln calc/tan calc, patchy drk/blk stn/incl/mot'g in prt, lo vsbl por,	-C-						\rightarrow	_		_
	4330		no odor, SDO.							_	+		
			LS- It gry & off wht/khkai, vfn grn xln, buff > fnt foss/xln, lo chlk, decr cln xln calc ~absnt, grity xln text, dns/tite, lo por, no odor, 1-2 pcs tan calc xln w/ wk							\pm	+		_
	4340		SO/SDO (from abv).						$ \blacksquare $	\pm	\pm		
			SH/SLTSTN- maroon, vfn grn, non-fiss/irreg bd'g, grity slty, micas, mot'd w/ gry argy Is in in prt, no por, no odor, nso/g. (minr lith)							\pm	\pm		
			1 C. If any damp would be avail finan data data 10							\pm	\pm		
	4350		LS- It gry, dngy gry/It brn argil (incr drk, decr It), vfn grn xln, mostly buff, incr vsbly xln cont-calc, lo chlk-edge in prt, sl						—	\pm	+		_
	1		chilky grad to crsiy xin calc im, no odor, nso/g, 1-2 SDO.							\pm	\pm		
	4360			-C-					$ \blacksquare $	\pm	\pm		_
			LS- dngy gry/brn argy, decr Its/chlk, vfn grn xln, hrd/tite, no por, no odor, nso/g.							\pm	_		_
	1		LS- khaki/tan-gry, vfn grn, sity grity text, io chik, argii, mot'd in prt w/ drk							\pm	\pm		
	4370		(tan/dngy gry brn) xin is-incr foss & calc & visity, mostly buff, rare tan crsiy calc xin bryoz/coral foss pcs w' columnar' foss por, io por o.a., no odor, bub						╞	\pm	+		_
4375 (-1709)		Ĭ	on brk & wk trans SO (chlky gritty), rare FR tarry SO (foss pc).(4380)							=	#		
+2	4380					_			\square	—	—	-	
			LS- drk-lt gry, Isr tan/khaki, vfn grn xln, buff in prt, slty grty slty, chlk-edge in prt, hrd dns tite, no vsbl por, no oodor,							\neg	_		_
	4390		nso/g.	-C-									_
			SLTSTN/SH-drk gry > blk, lsr lt gry, vfn grn, grity,, frbl, no	_						\pm	_		_
		<u>·</u>	por, no odor, nso/g. (minr lith) LS-grys, khaki grity, vfn grn, chlk edge, few pcs w/ hvy foss spar cem, lo por, no odor,							\pm	+		_
0 BOP (min/ft) 10	4400		nso/g.	0				Т	G	_	+		200
0 Gamma (API) 150			LS(aa)- few it pc w/ drk foss cist & SDO, tan xin w/ fnt ool/foss, spar cem, psbl SDO, lo por o.a., no odor, nso/g. SH & LS(aa) dom lith.							\pm	\pm		_
	4410									_	_		_
			SH- drk gry-blk, sig incr, vvfn grn, lentic/fnt drk min horiz,							=	+		_
			fnt bd'g, frbl, nonfiss, grty/slty, no por, no odor, nso/g.							-+	-		
	4400			<u> </u>							+		
	4420		(~50% 4430)	-C-						+	+		
	4420		(~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor,	-C-									
FORT SCOTT	4420 4430		(~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam,	C									
4436 (-1770)			(~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor,										
			(~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text,	C									
4436 (-1770)	4430		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & 	- ç -									
4436 (-1770)	4430		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks 	- ç -									
4436 (-1770)	4430		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & 	-ç-									
4436 (-1770)	4430		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, 										
4436 (-1770)	4430		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, is grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. 										
4436 (-1770) -1	4430 4440		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) 										
	4430 4440 9 977 4460		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, 										
4436 (-1770) -1	4430 4440		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn 										
4436 (-1770) -1	4430 4440 9 977 4460		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln, shly contact in few, lo patchy por, fnt odor, wk SO ~5% SH- dk-It gry, blk, vvfn grn, fiss-plty tab frac, frbl, no por, no 										
4436 (-1770) -1	4430 4440 9 977 4460		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln, shly contact in few, lo patchy por, fnt odor, wk SO ~5% 	φ-									
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4436 (-1770) -1	4430 4440 0577 4460 4470 4480		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln, shly contact in few, lo patchy por, fnt odor, wk SO ~5% SH- dk-It gry, blk, vvfn grn, fiss-plty tab frac, frbl, no por, no odor, nso/g. (mir lith) LS(aa) dom lith, decr SO. LS- tan/lt brn, vfn grn xln, cln clac xln, fnt foss & buff > vsbl foss, drk and It foss incl in prt, lo por o.apatchy/bnd'd fr 	φ-									
4436 (-1770) -1	4430 4440 0 <u>9</u> 77 4460 4470		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/It brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln, shly contact in few, lo patchy por, fnt odor, wk SO ~5% SH- dk-It gry, blk, vvfn grn, fiss-plty tab frac, frbl, no por, no odor, nso/g. (mir lith) LS(aa) dom lith, decr SO. LS- tan/It brn, vfn grn xln, cln clac xln, fnt foss & buff > vsbl 	φ-									
4436 (-1770) -1	4430 4440 9547 4460 4470 4480 4490		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln, shly contact in few, lo patchy por, fnt odor, wk SO ~5% SH- dk-It gry, blk, vvfn grn, fiss-plty tab frac, frbl, no por, no odor, nso/g. (mir lith) LS(aa) dom lith, decr SO. LS- tan/lt brn, vfn grn xln, cln clac xln, fnt foss & buff > vsbl foss, drk and It foss incl in prt, lo por o.apatchy/bnd'd fr 	φ-									
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4436 (-1770) -1	4430 4440 9547 4460 4470 4480 4490		 (~50% 4430) SH- incr blks/drk cont, vvfn grn, fnt bd'g vsbl w/ min lam, nonfiss, frbl sl brtl, grty text in prt, micas, no por, no odor, nso/g. (dom 4440) SH(aa)- more true carb shl, ls grty o.a., decr gry, flky frac, sl grsy surf text, flky frac, no por, no odor, nso/g. LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln > crsr fn w/ incr foss, spar cem, xln/rxln calc, crbl chlk/xln, opq & semi trans xln in prt, lo vug/dissol por, lo vsbl intxln, looks tite, no odor, <5% SO-sptd gld/ylw fluor, trans incr w/ brk. LS(aa)- incr tan/lt brn frsh shrp xln, lo chlk, fnt & fleet'g odor, lo por o.a., sl incr fnt foss & chlk'd xln pcs w/ SO (~5%) LS(aa)-LS- It brn/tan, khaki off wht, patchy It xln in prt, vfn xln, shly contact in few, lo patchy por, fnt odor, wk SO ~5% SH- dk-It gry, blk, vvfn grn, fiss-plty tab frac, frbl, no por, no odor, nso/g. (mir lith) LS(aa) dom lith, decr SO. LS- tan/lt brn, vfn grn xln, cln clac xln, fnt foss & buff > vsbl foss, drk and It foss incl in prt, lo por o.apatchy/bnd'd fr 	φ-									
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LS- tank/khaki > off wht, It gry shly in prt, vfn grn, calc. Io chik, cht absnt, pyr xin, gry/shly/arg ptachy cont, no vsbl por