KOLAR Document ID: 1597504

Confiden	tiality 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 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:
		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? Yes No
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 Tota	al Depth:	
Deepening Re-perf. Conv. to EOF	R Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GS	N Conv. to Producer	(Data must be collected from the Reserve Pit)
		Chloride content: ppm Fluid volume: bbls
		Dewatering method used:
		Location of fluid disposal if hauled offsite:
GSW Permit #:		Operator Name:
		Lease Name: License #:
Spud Date or Date Reached TD	Completion Date or	Quarter Sec TwpS. R East West
•	Recompletion Date	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: 1597504

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

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Take			<u> </u>	/es 🗌 No	1		L	og Forn	nation (Top), De	pth and	d Datum	Sample
(Attach Additiona				(N	lame)			Тор	Datum
Samples Sent to Ge Cores Taken Electric Log Run Geologist Report / M List All E. Logs Run:	Aud Logs	vey		∕es ∟ Νο ∕es □ Νο ∕es □ Νο ∕es □ Νο	1							
			Rep	CASI ort all strings	NG RECO		Nev		duction, etc.			
Purpose of String		ze Hole Drilled	Si	ze Casing et (In O.D.)		Weight _bs. / Ft.		Setting Depth	Type o Cemei		# Sacks Used	Type and Percent Additives
Purpose:		Depth	Turo	ADDITIO e of Cement		NTING / S		EEZE RECC		and Pa	ercent Additives	
Perforate	Тор	Bottom	тур	e of Cement	#0				туре	anu re	Acent Additives	
Protect Casing Plug Back TD Plug Off Zone												
 Did you perform a h Does the volume of Was the hydraulic fractional first Production 	the total base acturing treat	e fluid of the hy ment informat	ydraulic fi ion subm	acturing treat	emical disclo		stry?	Gas Lift	No (If	No, skip No, fill c	o questions 2 an o question 3) out Page Three o	
Estimated Production Per 24 Hours	1	Oil B	bls.	Gas	Mcf	,	Wate	r	Bbls.	Ga	as-Oil Ratio	Gravity
DISPOSIT	TION OF GAS	8:			METHO		1PLE	TION:			PRODUCTIC Top	IN INTERVAL: Bottom
Vented So	old Use	ed on Lease		Open Hole	Perf.		-	Comp ACO-5)	Commingled (Submit ACO-4)		100	
Shots Per Foot	Perforation Top	Perforat Bottor		Bridge Plug Type		e Plug t At		,	Acid, Fracture, Sho (Amount ar		enting Squeeze of Material Used)	Record
TUBING RECORD:	Size:		Set At:		Packer	At:						

Form	ACO1 - Well Completion
Operator	DK Operating Inc.
Well Name	MOONEY 3-21
Doc ID	1597504

Casing

	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	220	H-325	165	14.8ppg
Production	7.875	5.5	17	4394	EA 2	225	15.36ppg

Ve Appre	noY stei	səuisng	js			Total		<i>†L`LLL</i> `61\$
	nsmogen zaleč	ζīπυοϽ					%59'L	¢2.811,1
B3D	Subtotal Drayage Carvier Criange Cerno					səliM noT	00'1	18'629'20
81D 60	ir-Air Service Charge Ceme	tu		2		Gallon(s) Sacks	42.00	420.00T 420.00
12	Liquid KCL (Clayfix	((allon(s)	00.25.00	T00.02
18	Alud Flush				200	Gallon(s)	05°I	750.027
08	vitensd-itluM fliws	GIM) brahard	(II NOO			Sacks	00.81	700.020,4
94	Slocele				1 521 1 001	(s)q7	00.5	T00.275
55 83	Salt Falad 322					(s)q1 (s)q7	05.8 22.0	T00.275 T00.028
84	Calseal			·	S 8	Zsck(s)	40.00	T00.025
52	Standard Cement				S SLI	Sacks	14.50	T02.752,2
S-71	5 1/2" D.V. Latch Dd	BB & gulf aw	भूमि			Еасћ	200.00	T00.001
\$-60	5 1/2" Turbolizer					Еасћ Еасћ	00.00 00.22£	T00.042
5-20 5-20	5 1/2" Insert Float Sh		Eill			Each	00.272	T00.022
5-80	1 % looT .V. D "2/1					Each	00.275,5	T00.275,5
Q64	owT - sguad Qmu	T qoT & sget2	gnint2gnoJ mottoB o			lob	2,050.00	2,050.00
12D	Vileage - I Way				V St	səliM	00'9	00.072
PRICE REF.		DESCRIPT	NOL	лю		МU	UNIT PRICE	TNUOMA
7-£# 0£ 19N	VənooM	nemagboH	Pickrell Rig #10	I!O	De	tnamqlava	5 1/2 Longstrin	nosbiĐ g
ERMS Well N	esse .	County	Contractor	ell Type	IIƏW	II Category	Jop Purpose	Operator

• Tool Rental	Jetmore, KS 67854
· Cement	tsant2 notna8 150
enizibioA .	D K Operating, Inc.
	BILL TO
6/7/2021 33885	"mj "gamma

9/4/2021 33882 9/4/2021 33882	hogh 77	Off: 785-798-2300 P. O. Box 466
		BILL TO
Tool Isental Cement Acidizing	•	D K Operating, Inc. 621 Benton Street Jetmore, KS 67854

SWIFT	CHARGE TO: DK OPERATING ADDRESS				TICKET	33882
Services, Inc.	CITY, STATE, ZIP CODE				PAGE	ⁿ Cr
1. New City, KS WELLPROJECT NO 1. New City, KS WELLPROJECT NO 2. TICKET TYPE CONTI	CT NO. LEASE MOONEY COUNTY/PARISH CONTRACTOR D.C. K. C. M. D. L. RIG NAMEND.	STATE	DELIVERED TO		DATE 9-4-2021 ORDER NO.	OWNER
3. WELL TYPE 4. ON REFERRAL LOCATION INVOICE INSTRUCTIONS	WELL CATEGORY JOB PURPOSE DEVELOPMENT LONG String		WELL PERMIT NO.	3 1	WELL LOCATION Hanston au	OL WEPEN
PRICE SECONDARY REFERENCE/ /	ACCOUNTING DESCRIPTION		OTY LIAM OTY	W/II	UNIT UNIT	AMOUNT
	MILEAGE TIK #13 PUMP CHARGE - TWO	Singe	3-		a,060 00	2)00 (C
408	DV Taul + Plug Set	21	5% IN	I LEA	3375 00	3.376 00
403	CMT Basket	10	5/2 10 3	EA	375 00	550 00
t t,oh	the w	Auk 611 5	IN	-	325 02	325 00
hoq h			5/2 IN 6	EA	00	540 00
	DV LARCH DOWN Phug +	4 Battle 5/2	a juv	EA	300	300
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include	d agrees to REMIT PAYMENT TO:	SURVEY OUR EQUIPMENT PERFORMED	AGREE UNDECIDED	ED DISAGREE	PAGE TOTAL	7310 199
but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.	0.	WE UNDERSTOOD AND WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS			-	18,659
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS. X	P.O. BOX 466 NESS CITY. KS 67560	WE OPERATED THE COUPMENT WE OPERATED THE COUPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			In 4	1118 34
DATE SIGNED 9-4-2021 TIME SIGNED	DAM. 785-798-2300		HED WITH OUR SERVICE?	DND	TOTAL	the until
	CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket	vledges receipt of the	materials and serv	ices listed	on this ticket.	
SWIFT OPERATOR 4 1	APPROVAL	,			1L	Thank Youl

Intring WELL WELL # 3.31 Offer 4 - 3.031 PSS TON OTV UN OTV UN PUN PUN MT IN IN IN PN PUN PUN MT IN IN PN PN PUN PUN MT IN IN PN PN PUN PUN PUN MT IN PN PN PN PN PN PN MT IN PN PN PN PN PN PN PN MT PN	M	IFT	PO Box 466		TICKET CONTINUATION			Ĕ	TICKET 33	33882	
Mathematication Continuent Description This Description Mathematication Mathmatication Mathematication Ma	exuice		Vess City, KS 67560 Off: 785-798-2300		DK OPERATING	WEELL			1000- h-1		50g
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	PRICE EFERENCE	SECONDARY REFERENCE/ PART NUMBER	CCOUNTING ACCT DF	TIME	DESCRIPTION	aty U/I		Σ	UNIT	AMOUN	E
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	502						176	SPS	-+		8
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	184				alsen		80	2			8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	83				Salt		0,011	ilos		375	81
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	63		1		Halact-322		100	Ibs			8
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	01		-		Flocele	_	132	201	m	376	81
I Mud Flush Stocical 1 I Lagued KL 3 5 I D-Aix N 2 I D-Aix 1 2	20				Multi-devisity (305	2g			8
I I <td>8</td> <td></td> <td></td> <td></td> <td>Flu</td> <td></td> <td>200</td> <td>ge/</td> <td></td> <td>1</td> <td>818</td>	8				Flu		200	ge/		1	818
Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change Image: Service Change	20				J-Air	_		541 541	50		
I SERVICE CHARGE I SERV											╺╎━╺┼╸╾┥╼╸┼╸
I SERVICE CHARGE CUBIC FEET 4QC 2 I MILEAGE TOTAL WEIGHT LOADED MILES 92A 1											
I MILEAGE TOTAL WEIGHT & LOADED MILES 922 100 MILES 922 1 00	81		-	S		CUBIC FEET	400				3
	33			ΣO	TOTAL WEIGHT LOADED MILES		923				8]

				1	t	
0 - 2016				9, Ø	0911	
1						
m					sell	
-						
3	-				9111	
			151			
			56	- English English		
-		-	14	A		
s are			Q	4,9	8901	
8						
M					1901	
\checkmark		~	Ch	2/12	9201	
24 000			000	1.		
aur					08.01	
1 (290	-		EI	n	900	
0					9150	
S					5190	
ମ	-					
21						
4						r
R					000	
0					NER	
	Image: Construction Image: Constr	M M <t< td=""><td>Image: Second second</td><td>m m m m m m m m</td></t<> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td>	Image: Second	m m m m m m m m	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Botton State	ך ווזכק סיו	5-435	41						
Buys may og	ך משכק סיי	5-43 S	41						
NOM	PO 9 NMOP-961	3950E	5.						
abits de no p	osn JWS	HZ-0 \$ 545 98	Ž						
1	4.210	two go	22		-			0221	
		dn yst						0081	
	EII # 41	900	17					(19,61)	
4+2 9 672	54508 P3	ברוכח אים	# 094		_	18	e/ih	5481	
12	TSU	717 20				78	C/.h	200	
	TNSMSDA)	deia 200	17 ane 45 an	-		11	9/h 9/h	9hCl	
						<u> </u>	7117		
	Saver + O	alense Perm		1	Ø			9581	
			ed .						
E11 0 0W	s fo sols g		W 921			801	8/2	goel	
	000	0			1	13		arei	
<u>L</u> (22]	HZDA	78 SL				2/1		
12240	S OCH 19	199 dw	ny l					\$9 \$1	



	ג #ז: ג #ז: א			194/260				
iədO dwn	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100			508	8.5	wdq	isd 781	sidd 09
emed	and the second se	,		52	В БТӨҮА		элиггэдө ЭргэүА	Total Fluid
	СВЕ		N. C. C. A.	LINO			YAAMMUS	
					and the state of the			
				P.C. BALL CONCERNING FOR				
1146P				OFF LOCATION		• <u>•</u> •••		
1120P			9.65		9			
48011			9.69	AT 9MU9 9U DEHEAW				
49011			9.65	PLUG DOWN WITH 5 B				
11036 4	9.031 8.00	15'8	9'69	DISPLACED WITH H20				
1052P	500.0	2.14	7.94	PUMPED 165 SKS OF I	- 325 @ 212.3 FT			
1050P 3	0 120.0	0.8	0.8	PUMPED 5 BBL OF H2	DABHA 0			
1034P			-	CIRCULATED HOLE				a da anti-anti-anti-anti-anti-anti-anti-anti-
1026P			-	LANDED CASING				
40101			-	RIGGED UP TRUCKS				
49001				SAFETY MEETING				
1000F		•	•	GOT TO LOCATION				
IME R	IS9 3TA	\$788		SHARKS				
		30AT2	JATOT	:vrul 8 letoT Total Sacks:	21dd 7.14 xs 281	4	:Vinič letoT Total Sacks:	21dd 0,0 xz 0
splacem an 100 l	1 22	sidd		:ssaoxa	-144 2 PP		:ssabxa	-144 0 0
os9 \ loo 90 looT	the second	÷.		:9muloV 16lunnA	sidd 8.21		semuloV selunnA	sidd 0
	:43d	ų		Depth:	212.3 #		Debty:	н
7 / Guidi	1.1	uj		:.)4 / sid8 reinunA	.ft / sdd 8570.0		Annular Bbls / Ft.:	.ft. \ edd
a d e nise		H		:ÞləiY	xe / "H Sp.r		:bləiY	xs / ch
; Guiseo	the second se	uj		:x8 \ 1916W	xs / lsg 6.8		:x2 \ 1936W	xs / JBB
Hole De	22 :41d	ų		знејаМ	6dd 8.41	4	:theight:	6dd
Hole	2.21 :92i	ui		Blend:	H-352	2	:bnel8	
Downh	ole Informat	uc		S befelualeD	пил - Геад	7	Calcu	lieT - Ynulle befe
Field	N HEOL HOS	reier		:я-т- г	51-55	W12-5	:esivies	Surface
	ate: Oakley			:Kjunog	иәброң		:əted	8/26/2021
	the second se			11.415 52 53	Mooney		Тіскеt:	1871 gW
Cleno	ner: <mark>D K Op</mark>	nuitere	50	-IIIaW		10 2 #	No. of Concession, Spinster, Spinste	POL P G/W

.

The recommendations made hereon shall not be constructed as authorizing the infringement of any valid patent, and are made without assumption of any liability by Andy's Mud & Chemical Co., LLC or its agents, and are statements of opinion only.

				900991	=əmuloV		udd 056	=muiole0	·udd00026	eserve Pit Chlorides=
9,0000	210120 7.11				and the second se					
adibbe	in #1 before	əlod llemz təį \qı	πυα άβυοιάτ	idZ.1 19/	vo bbe\enim 0	k roll for 2	12 Pulls			eight and the issues
						Ť	98 8T-ST	ng higher	ived zu of sub	#A-E te qu MOJ qaa
						E	3il I			
						3	2 caustic		l lat all timeste l	lole must be kept ful
							J/2 pac			2.11
							se ebos £			lalod to tuo griddi
		neter	վջցոյ Հ/Հ եստ	tiq 2/1 r	ill premix with	f or vis f	~If need			eeb bnub kickeq ju
								111H	the rest of we	tdgiaw bum 2.9 qaa
110	ימווווובוומסמר	ior treatment rec		11100 01	NORD HOUM NO		959-582			
	oitebagaaga.	ion toorateont rol	T20 rothe me	4404 04	Joed andw Jo	ada burra d	+im IIc0~			Viwols spnes lle llind
			pəpəəu se a	anilwolf	te sllud xiM -N	1 3-4 # LCN	nietnieM		н	divide abase lis lind
				14 150			better			
10 S.8 21 14	ud after weig	m eter to hydrate m	phole/run wa	n sənssi	netew of eub	2.9 ts thgi	Keep we			
			8	~						" lluf əloH qəəX
A.		50	and for DST/L	anilling	of 52-56 while	viscosity	nietnieM			
δ		тиэмтаэят	япот азаизи	SECOMIN	1					" uoY AnedT
300T-8	91617117	95-25	γίεοσείτ	5'6	tdgisW				NARKS	
	SNOI	RTIES SPECIFICAT	MUD PROPE				XXX			lethylene Blue Capacity
					Pol-E-Flake		#Z 8'S6		(.	/ater Content (% by Vol CM, #/bbl
					Cedar Fiber		XXX		N.	il Content (% by Vol.)
	0		92		Barite		4.2			loV yd %) tnetno2 sbilo
	0		7		PHPA		ЯT ВТ			and Content (% by Vol.)
	0		Z Z		Drispac		50 2'200			nlorides (ppm) alcium (ppm)
	0		τ		- cime		4.0		(Kalinity, Filtrate (Pf/Mf
	2		3		bingil		8.0			(m9) buM (Pm)
	5 3		6		Soda Ash Caustic		7(35 XXX			PI HP-HT Filtrate (ml/30 ake Thickness 32nd in. /
	S		TZ		slinH		9.6			(.nim 0E\.Im) I9A etrat
	33		22		Premium Gel		OL			H (Strip)
Cost \$16,143.35	pəsn	Tota Add Del.	54.583.45 1,283.45		Product		14/28 18	uit		eld Point (lb./100 sq. ft. el Strength (lb./100 sq.
				*			91			astic Viscosity
2.98	(.niM) 9miT		Ft.		Elevation		SS			.tp/oss) viscosity (sec/qt.
	(.niM) au	60 Circulation 1350	Stroke/Min. Gal/Min.		Bbl/Min Bbl/Stroke		\$'6 5'6			'eight (ppg) ud Gradient (psi/ft.)
8,85	LIG2) a Install			1.2 Million (2001)						epth (ft.)
38.8 800 DC 326	Pressure (PSI) 197	dQ %06	Assumed Eff.		leboM gmug		4340			(++) 4+00
008	and the second se	60% Db	.ft3 bamussA	₽TX9	Pump Size IsboM gmu9					ne Sample Taken
800 DC 326	26T	ATAG NOITAJL V 16lunnA 90 %06	วารเว	71X9	əzi2 qmu9				MUD PROPE	me Sample Taken
800 DC 329	26T	bəsU stiq ATAQ NOITAJU V ıslunnA 90 %00		71X9	əziS qmuq	0am		jiq RTIES	X	ample from flowline me Sample Taken
DC 326 800 800	26T	ATAG NOITAJL V 16lunnA 90 %06	วารเว	71X9	əzi2 qmu9	0am				me Sample Taken
3490 Chemical-Pac 31	et (Ft/Min)	Mud Up Depth Nud Up Depth Activity basu surged Atad Norta Vasiunna DP DP DP DP DP DP DP DP DP DP DP DP DP	כוצכו ני יי	7173	Intermediate @ Production @ Pump Size		ETT ·dw	Flowing Te	X 09 7 /T 9 HX	/pe rill Collar Size t RPM ample from flowline me Sample Taken
DC 800 Chemical-bac 3490 333,4 3490	Yolume Valume	Total Circulating Mud Up Depth Mud Up Depth Argivity Pits Used Atan Marian Pits Used Pagw Pagw Pagw Pagw Pagw Pagw Pagw Pagw	כואכר ני	7173	8 5/8 @ Intermediate Production @ Pump Size	30,000 m60	ETT ·dw	Meight on Flowing Te Figure	X 09 t/t 9 HX T/T t	rill Pipe Size /pe rill Collar Size r RPM ample from flowline me Sample Taken
400 2490 Chemical-bac 3490 3490 34 3 3 3 3 3 3 3 3 3 3 3 3 3	Yolume Valume	Alecial Circulating Anual Up Depth Mual Up Depth Mual Up Depth Mual Type Anual Type A	כואכו עי עי	7173	Intermediate @ Production @ Pump Size	30,000 m60	ETT ·dw	No. Bits Weight on Flowing Te	X 09 7 /T 9 HX	/pe rill Collar Size t RPM ample from flowline me Sample Taken
BL) DC 800 Chemical-Pac 723.4 3490 723.4 800 723.4 800 800 800 800	T97 el (Ft/Min) Pits Volume D VOLUME (B	UM Hole 323.4, Hole 2323.4, Hole 7541 Nud Up 7671 Nud Up 7671 Nud Vp 76711 Nud Vp 7671 Nud Vp 76711 Nud V	כואכו עי עי	ex14 550, 4 CFSING	Surface 8 S/8 @ Production @ @ Production	2 30,000	ETT ·dw	No. Bits Weight on Flowing Te	200 09 09 09 05 07 09 05 00 05 00 05 05 05 05 05 05 05 05 05	t Size Pe Pe ill Collar Size r RPM mple from flowline mple from flowline
B00 DC 326 Cyemical-bac 2490 VS3'4 3490 400 323'4 523'5 3490 523'5 355'5	SEC,TWN,RNG STATE D VOLUME (B Pits Volume Volume	MU Hole 323.4 Total Circulating Mud Up Depth Mud Up Depth Mud Type Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used	כואכו עי עי	EX14 Four Bud CASING CASING	EA Surface 8 S/8 @ Production @ @ Production	яероят гоя (соилту Рак 30,000 	ETT ·dw	No. Bits Weight on Flowing Te	Marc Downing Mooney #3-21 DRILLING ASSI 7 7/8 HX HX HX HX HX HX HX HX HX HX HX HX HX	PORT FOR ELL NAME AND NO. t Size ill Pipe Size pe r RPM rmple from flowline mmple from flowline rmple from flowline
B00 DC 326 Cuemical-bac 2480 Strage 400 Kauzas 51-53-51 S72-51 51-55-51	SPUD DATE SEC,TWN,RNG STATE Pits Volume Volume	MU Mole 323.4 Total Circulating Mud Up Depth Mud Up Depth Mud Vp Depth Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used	כואכו עי עי	EX14 EX14 EX14 EX14 EX16 EX16 EX16 EX16 EX16 EX16 EX16 EX16	د EA Surface 8 5/8 @ Production @ Production	823рада 8697 F09 8700007 70000 30,000 30,000	ETT ·dw	No. Bits Weight on Flowing Te	۲۵۵۹۹۸ Marc Downing Marc Downing Marc Down Marc Downing Marc Down 778 412 412 412 412 412 412 412 412 412 412	PDRESS PDRESS ELL NAME AND NO. t Size rill Pipe Size rill Collar Size t RPM t RPM mgle from flowline mgle from flowline
B00 DC 326 Cyemical-bac 2490 VS3'4 3490 400 323'4 523'5 3490 523'5 355'5	SEC,TWN,RNG STATE D VOLUME (B Pits Volume Volume	MU Mole 323.4 Total Circulating Mud Up Depth Mud Up Depth Mud Vp Depth Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used Pits Used	כואכו עי עי	EX14 Four Bud CASING	د EA Surface 8 5/8 @ Production @ Production	СОИТКАСТО КРОКТ FOR КЕРОКТ FOR СОUNTY ARI СОUNTY ARI	ETT ·dw	EMBLY No. Bits Weight on Flowing Te	DK Operating Inc. Company Marc Downing Marc Downing 7 7/8 4 1/2 7/8 60 XH 60 X	PERATOR PORT FOR ELL NAME AND NO. t Size rill Pipe Size rill Collar Size reper t RPM mple from flowline mode from flowline reper re
B00 DC 326 Cµewicsi-bac 2480 Stado 400 LS3'4 8757.51 S72-51 57-51.51	SPUD DATE SEC,TWN,RNG STATE Pits Volume Volume	UM MO SCS 323.4 Noted Control Structure Noted Control Structure No	כואכו עי עי	eXT4 eXT4 550, 4 borggews Kig bickell bickell	د EA Surface 8 5/8 @ Production @ Production	823рада 8697 F09 8700007 70000 30,000 30,000	ETT ·dw	Pitence"	МЛТН ТНЕ ЕХР DK Operating Inc. Company Marc Downing Marc Downing<	MGO I PREATOR PORT FOR PORT FOR PORT FOR FLL NAME AND NO. T SIZE T SIZE
800 DC 800 320 Cyemicsi-bac 2430 5334 400 5334 80 5354 51-55-51 51-55-51 51-55-51 50 10	RIG NO. SPUD DATE SEC,TWN,RNG Pits Volume Volume	UM NO ACCONTRACTION NO NO NO NO NO NO NO NO NO	כואכו עי עי ווּאַ ווּאַ	Cell	Pump Size Size Size Production Production Production	8 ЕРОЯТ NO. СОИТКАСТО КОРТКЕЗ5 ВЕРОЯТ FOR REPORT FOR 30,000 30,000	ETT ·dw	Pitence"	DK Operating Inc. Company Marc Downing Marc Downing 7 7/8 4 1/2 7/8 60 XH 60 X	MGO I PRETOR PORT FOR ELL NAME AND NO. III Pipe Size Pe Pe Mple from flowline mple from flowline mple from flowline
800 DC 326 Cpemics-326 Cpemics-59 400 400 872-75 51-55-51 51-55-51 51-55-51 70 8-52-57 70 8-72-90 70	DEPTH SPUD DATE SPUD DATE SEC, TWN, RNG STATE STATE STATE STATE STATE Volume	9/2/2021 MU MU MU Mud Up Depth Mud Up Depth Mud Up Depth Mud Up Depth Mud Vp D	כואכו עי עי ווּאַ ווּאַ	EXT4 EXT4 550, 4 Hoq8eus Bor8 grq Bi8 bicktell bicktell	۲ ه در التوريم در التوريم التوريمو ه ۲۰مردرامم ه ۲۰مردرامم ه ۲۰مردرامم ه	кероят NO. CONTRACTO CONTRACTO REPORT FOR REPORT FOR <td>ETT ·dw</td> <td>Pit ERIENCE"</td> <td>کی سیلیل THE EXP Marc Downing Marc Downing Inc. Marc Downing Inc.</td> <td>PERATOR PORT FOR PORT FOR PORT FOR ELL NAME AND NO. POE POE POE POE POE POE POE POE</td>	ETT ·dw	Pit ERIENCE"	کی سیلیل THE EXP Marc Downing Marc Downing Inc. Marc Downing Inc.	PERATOR PORT FOR PORT FOR PORT FOR ELL NAME AND NO. POE POE POE POE POE POE POE POE
800 DC 320 DC 220 Cyemicsi-bac 400 2374 872-57 51-55-51 51-55-51 51-55-51 70 8-52-57 51-55-51 70 8-72-90 8-72-90 70 70 70 70 70 70 70 70 70 70 70 70 70	RIG NO. SPUD DATE SEC,TWN,RNG Pits Volume Volume	9/2/2021 MU MU MU Mud Up Depth Mud Up Depth Mud Up Depth Mud Up Depth Mud Vp D	כואכו עי עי ווּאַ ווּאַ	Cell	Pump Size Size Size Production Production Production	8 ЕРОЯТ NO. СОИТКАСТО КОРТКЕЗ5 ВЕРОЯТ FOR REPORT FOR 30,000 30,000	ETT ·dw	Pit ERIENCE"	کی سیلیل THE EXP Marc Downing Marc Downing Inc. Marc Downing Inc.	PERATOR PORT FOR PORT FOR FLL NAME AND NO. t Size f RPM rmple from flowline rmple from flowline rmple from flowline
800 DC 320 Cpeuises 23 2400 253'4 400 400 51-25-51 51-55-51 51-55-51 70 8-52-57 70 8-72-57 70 8-72-90 70	DEPTH SPUD DATE SPUD DATE SEC, TWN, RNG STATE STATE STATE STATE STATE Volume	9/2/2021 MU MU MU Mud Up Depth Mud Up Depth Mud Up Depth Mud Up Depth Mud Vp D	כואכו עי עי ווּאַ ווּאַ	eXT4 eXT4 550, hqtseus pong pad blockell kig blockell cell	Pump Size Size Size Production Production Production	E-Mail Phone REPORT CONTRACTO ADDRESS REPORT FOR COUNTY ARI COUNTY ARI	ETT ·dw	Pit ERIENCE"	МЛТН ТНЕ ЕХР DK Operating Inc. Company Marc Downing Marc Downing<	ERATOR ERATOR DRESS PORT FOR LL NAME AND NO. L Size DI Pipe Size DRE DRE C RPM mple from flowline mple from flowline mple from flowline

The recommendations made hereon shall not be constructed as authorizing the infringement of any valid patent, and are made without assumption of any liability by Andy's Mud & Chemical Co., LLC or its agents, and are statements of opinion only.

				1	e00PPI	=9muloV		-mqq 026	=muiɔleϽ	.mqq0007e	eserve Pit Chlorides=
									nengin ar		44-6 16 qu MOJ q99 eight and the issues
			slli	ց։ ՀՕ bar, 8 hu թ		k on bottom l					ole must be kept fu
9.0000	210120 2# 22	Udund us	-								iaiou io soo Suiddi
ρdihhe	eroled C# tei			ig, 15 hulls, 2: Ik over 1.5 hrs	məteye	es 5, das asb, 3 ca an <mark>til added to</mark>	nk rolling a	*Keep ta 1 pac, 25			thgiəw bum 2.9 qəə də yanud kicked in də out of hole!
no S.e si th	giew reffe bu	im ətərbyi	d of 191	e se ueeqeq byoje/ <mark>un ma</mark>		due to water 1- Mix hulls at		better	uc	o ni TZ <mark>O</mark> əlihw r	Keep pump kicked in ottom
			90	J\TZO 101 bne	grilling	əlidw ƏZ-SZ to	νιεςοειτλ	nistnisM			" llu∃ əloH qəəX
	The second	TNENT	ИТАЗЯТ	RENDED TOUR	ECOMIN	1	-				" noY AnedT
3201-8	Filtrate	95-29	5	Viscosity	5.6	thgieW				NARKS	зы
	SNOI	PECIFICAT	RTIES S	MUD PROPE				XXX		1	ethylene Blue Capacity
		~				Pol-E-Flake		#S'T Z'96			ater Content (% by Vo (ater Content (% by Vo
						Cedar Fiber		XXX	_	1	il Content (% by Vol.)
				92		Barite		3.8		(*	loV vd %) trient (% by Vol
				Z		Адна		ЯТ	1		.loV yd %) fnefnoD bri
				2		Desco		08			(mqq) muisle
				Z T		Lime Drispac		30'000			kalinity, Filtrate (Pf/Mi nlorides (ppm)
	2	9		3		Lignite		0.3		t:	(mg) buM (Pm)
	Z			6		Caustic		ZE/T		lqA	ni brickness 32nd in.
	3	100		8T		AsA sbo2		XXX			PI HP-HT Filtrate (ml/3
		02		τ6		slinH		91			Inim 05\.Im) I9A startl
1000		140		۲ <u>9</u> ۲		Premium Gel		2.8			H (Strip)
Cost 516,143.35	pəsŋ	Ioto Job	ÞØ	ST.TZA		Product Product		81/8 21	·uj		eld Point (lb./100 sq. fl el Strength (lb./100 sq.
20 000 300				32 230		the set of the set		8			astic Viscosity
L'98	(.niM) 9miT	Total Circ		.f.	1774	Elevation		St		(.tp/ses) viscosity (sec/dt.
38.85	(.niM) qU	Bottoms l		.niM\lsD		niM\ld8		0.4732			(.ft/isq) freiberð bul
008	Pressure (PSI)			Stroke/Min.	100000000000000000000000000000000000000	Bbl/Stroke		£.6			(aqq) trais)
DC 320		Db		.ft3 bamuzzA		IsboM gmug		4340			epth (ft.)
	(el (Ft/Min)	ATAG N		בוארו	41X9	əzi2 qmu ^q	ue	578	67111	MUD PROPE	me Sample Taken
3			Pits Us	ft.		Ø			1iq	X	anilwolt mort signine
Drilling			Activit	*5		Production			710	09	1 RPM
chemical-Pac		λDG	TbuM	.н.	l	0				t/t 9	rill Collar Size
3490	300000	Jp Depth				Intermediate	0.5-15-5		T gniwola	HX	en of the second s
400		323.4 Sirculating	Hole	ft.	520,	8 S/8 @	30'000 5	118	No. Bits Weight on	\$1/5	t Size rill Pipe Size
	D AOTOME (B		Non		DNISAD	0363113	6		1000 C 1000 C 1000		9212 1
									A TOPUS		
Kansas 21-22-21	SEC,TWN,RNG				Doug Buod	1.000	REPORT FOR			Marc Downing Mooney #3-21	FORT FOR ELL NAME AND NO.
.12-52-8	SPUD DATE			-1	Big Big		ADDRE55			Company	SS3RDS
OT	RIG NO.				Pickrell	80	СОИТВАСТС			DK Operating Inc.	ЯОТАЯЗ
	ОЕРТН		202/2/6	311/2		8	ON NO.		ERIENCE"	МІТН ТНЕ ЕХРІ	Contraction of the local division of the
0454	HT030	10		3TAQ	I	6525-959-582	REPORT	500	OT	SIKERD (
4340			l		ощсе	1858-529-582	Phone			S	
4340											
	אפ איט או	סצוררוו	[γ		and the second state of the factors of	lisM-3		1300	MAL WAR	1592@m
	אפ אוטם או	סצוררוו	[[×	72	Brandon Meno			1.00	MAR AND	***@ @ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

DATE: 9-04-21 PLUG DOWN: 12:45 PM

DATE: 9-04-21 PLUG DOWN: 11:155 AM

:TUO THAL STL ,19.52,201# '47.14, £105,23.61'

HSUIT

LT

91

ST

\$T

ET

72

TT

OT

6

8

4

9

5

7

8

Z

T

THREAD: 8RD

"Z/T-S :3ZIS

DATE: 9-03-21

#LL

71.44

43.37

43.10

43.85

17.44

43.09

43.89

44.05

40.70

89.14

17.14

44.19

31.65

13.51

43.50

57.73

S7.24

LENGTH

SE'S9 :111

LET

336

132

134

133

132

TET

130

571

128

127

126

125

124

123

122

121

#LL

RANGE: 3

SS-L :30ARD

MELL #: #3-21

LENGTH

SMD Rat Hole	TYPE	30 XS		
98612 qoT GM2	TYPE	XS SZZ		
98612 motto8 S-A3	TYPE	XS SLT	7	CEMENTED BY: Swift Svc
		,2821',S0Z	.4,7524,	CENT/TURBO @: 4367',4324',4281'

BASKETS @: 1330',1373'

DV 1330'	:8AJJ	D.V./PORT CC		OFF BTM: 1'		.8684 :00 138		1 EOT :NUR	STL ON
		ינד. 31.73'	SHOE	Sgol oN	:OT 2	TORGER		7654 :01 SA	סצורונ
4465.22	7	TALLEY TOTAL							
0	7111	20.803	TII	38.80£1	711	65 [.] 9721	111	1273.73	7111
	OST		120	S0.24	06	43.93	09	69.14	30
	67T		611	10.44	68	59.44	65	01.24	67
	148		3118	41.82	88	0T.9E	85	97.84	82
	147		LII	42.17	Z 8	86.24	LS	44.12	22
	97T		977	44.30	98	96.55	95	32.72	97
	571		STT	16.44	<u>58</u>	11.44	55	29.14	52
	144		114	39.75	78	40.41	75	97.44	54
	143		113	62.44	83	41.77	23	40.44	53
	145		115	96.65	85	61.44	25	59.44	52
	141		III	67.54	18	17.44	IS	01.94	TZ
	140		OTT	17.44	08	44.49	05	44.80	50
	52130		60T	78.84	62	43.72	617	17.44	6T
	138		801	82.44	82	42.41	87	43.98	81

67.44

71.34

43.61

77.44

12.44

47.35

43.80

74.57

05.44

39.00

41.77

42.14

44.62

44.23

69.44

44.26

40.42

LENGTH

LL

92

SZ

72

EL

22

TL

OL

69

89

29

99

<u>59</u>

79

89

Z9

τ9

#Lſ

58.55

39.90

43.82

20.44

19.44

24.25

43.45

19.44

44.04

65.94

12.85

44.82

44.16

20.67

27.44

44.00

44.16

LENGTH

COMPANY: DK Operating

COLLAR LENGTH: LTC

MEIGHL: 17#

17

97

57

**

87

45

TÞ

07

68

38

28

98

58

75

33

35

TE

#Lſ

LOT

90T

SOT

TOT

T03

ZOT

TOT

OOT

66

86

16

96

56

76

86

26

τ6

#11

CONDITION: USED

MAKE: White Band

V9nooM :32A3J

23.61

53.65

51.15

39.49

44.13

SS.44

39.98

TT.44

41.81

86.54

12.44

44.53

44.62

44.64

44.03

LENGTH

Compa	Company Name: DK Operating	DK Ope	rating		Lease Name: Mooney #3-21	e: Moc	oney #3-21				Date: 9/16/21	/21	
TBG Siz	TBG Size: 2-7/8"		TTL Joints:				TTL Length: 4363.70	4363.7	0	PBTD @		KB: 7'	
JT #	LENGTH	<u>11#</u>	LENGTH	<u>11#</u>	LENGTH	<u>11#</u>	LENGTH	<u>11#</u>	LENGTH	#1ſ	LENGTH	11#	LENGTH
F	32.40	26	32.47	51	32.81	76	32.05	101	30.51	126	31.54	151	
2	30.33	27	32.49	22	32.19	11	30.77	102	32.45	127	32.24	152	
m	32.43	28	33.41	53	32.47	78	29.00	103	33.46	128	32.18	153	
4	31.70	29	33.42	54	32.05	6/	31.85	104	31.20	129	29.78	154	
ŝ	31.03	30	31.88	55	32.55	80	29.36	105	32.43	130	31.56	155	
9	32.43	31	28.04	56	30.74	81	31.98	106	33.39	131	31.50	156	
2	32.40	32	33.37	57	30.71	82	33.35	107	33.44	132	31.58	157	
00	33.44	33	33.44	58	30.57	83	30.60	108	30.60	133	29.67	158	
6	30.64	34	32.41	59	33.39	84	32.47	109	30.69	134	31.52	159	
10	33.51	35	33.45	60	32.50	85	30.79	110	30.53	135	31.64	160	
11	30.56	36	33.42	61	33.36	86	29.51	111	32.39	136	31.42	161	
12	32.41	37	31.08	62	33.43	87	33.35	112	32.46	137	32.18	162	
13	30.60	38	33.68	63	32.47	88	33.45	113	33.44	138	32.22	163	
14	32.41	39	31.52	64	30.41	89	30.90	114	30.55	139		164	
15	30.65	40	32.45	65	32.45	90	31.44	115	31.67	140		165	
16	33.41	41	27.73	99	30.78	91	30.60	116	32.46	141		166	
17	30.90	42	31.41	67	31.29	92	30.74	117	30.85	142		167	
18	30.65	43	33.41	68	30.92	93	32.51	118	33.40	143		168	
19	30.30	44	32.03	69	29.38	94	30.71	119	29.40	144		169	
20	30.20	45	32.50	70	30.57	95	28.90	120	31.08	145		170	
21	30.59	46	30.72	71	29.50	96	32.05	121	30.85	146		171	
23	30.77	47	32.41	72	30.73	97	30.83	122	33.36	147		172	
23	31.37	48	31.70	73	30.70	98	32.42	123	31.76	148		173	
24	33.42	49	32.01	74	29.45	66	32.45	124	30.74	149		174	
25	29.07	50	32.38	75	33.46	100	29.40	125	30.75	150		175	
E	787.62	E	802.83	Ш	788.88	Ш	781.48	E	793.86	E	409.03	111	0

Perforations:

				Company Name		i		bernuteA
				Signature		KF		Delivered
					12/91	[/6	ber	Date Shipp
			in the second se					
		5232.68		:EUD TNUOMA				
		102.68		:xsT sals2 %č.8				
		2733.00						
		220.00		ruck Transportation	KEL L			
IS	oN	00 ° ⊆76	SALE	3/4 Varel New	₽.1£ 4	SALE	6TTE69T	T
		20.00	S	ц		н	679	τ
		20.00	S	п		u	745	τ
		20.00	S	и		п	975	τ
		20.00	S	Sub 2 3/8 IF Pin		н	842	τ
		00.801	S	7 Clamp 6 Link Type C		п	7442	τ
		00°05T	S	r Guiberson W/ 3 1/2 slips		n	E9ET	T
		00.22	S	3/8 IE LTU × 5 3/8 ENE LTU		ш	967	τ
		00.22	S	3/8 IF Box x 2 7/8 Reg Box		u	242	τ
		00.042	S	Collar 3 1/2 OD W/ 2 3/8 IF Box x Fin	חדיוו	8T/6		4
J'OQA TNUOMA	87A0		.NIM SYAQ	DESCRIPTION		ETAO NI	NO.	XTQ
	-		oN snorigele DN enorigele	٨	829 SX	(arom.	120	
		er No	ustomer Ord	0		ganto	29	Customi Address
		۲anuoJ	Pawnee		321	λəuooj	t	
02929	sy 'r	oreat Bend	τ.	25 to Rd P, I/2W, S to wel		зіск Ро		Ordered by
IS Ool, Inc.	T gni 98 xo	Return Pa Return Pa P.O. B		Directions Burdett, 5W to Rd 232		12/51/6	pə	Date Order
897	12000		NI	650) 792-6707 Fax: (620) 792-3537	8-01	1	T	
12//21	6	OICE DATE	ANI	ANSAS FISHING TOOL, INC.			CBI	9

	DRILL STEM TES	T REPO	ORT			
	DK Operating Inc		21-22	s-21w Ho	odgeman KS	
ESTING , INC.	621 Benton St Jetmore KS 67854+9019		Moon	ey #3-21	1	
				ket: 67762		
	ATTN: Marc Dow ning		Test St	art: 2021.	09.03 @ 06:55:0	0
GENERAL INFORMATION:						
Formation:MississippiDeviated:NoWhipstock:Time Tool Opened:09:29:17Time Test Ended:15:16:02	ft (KB)		Test Ty Tester: Unit No	Spe	ventional Bottom ncer J Staab	Hole (Reset)
Interval:4381.00 ft (KB) To43Total Depth:4380.00 ft (KB) (ThHole Diameter:7.88 inches Hole	(D)		Refere	nce Elevat KB to G	2174	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 6838 Inside Press@RunDepth: 403.98 psig Start Date: 2021.09.03 Start Time: 06:55:01	End Date: End Time: cs GTS 12 mins	2021.09.03 15:16:02	Capacity: Last Calib.: Time On Btn Time Off Btr		2021.09 1.09.03 @ 09:29 1.09.03 @ 11:45	:12
30-FF-BOB 1 mir	oleed off BOB 5 mins Built to 50" GTS 23 mins TSTM bleed off BOB 2 mins Built to 211 mine				SUMMARY	
200 000 000 000 000 000 000 000	CEM CONTRACTOR	Time (Min.) 0 1 17 49 49 76 136 136	(psig)(c2291.981196.321194.9111422.501279.671403.9811413.251	leg F) 12.16 Ini 11.15 Op 27.95 SH 24.22 En 23.79 Op 29.10 SH 25.56 En	Annotation tial Hydro-static ben To Flow (1) nut-ln(1) nd Shut-ln(1) ben To Flow (2) nut-ln(2) nd Shut-ln(2) nal Hydro-static	
Recovery	1		T	Gas F		1
Length (ft) Description 70.00 GMW 20%G 30%M 50%	Volume (bbl) N 0.99			Choke (inche	s) Pressure (psig)	Gas Rate (Mcf/d)
180.00 GOCM 20%G 20%O 60%						
1390.00 GO 80%G 20%O	19.70					
* Recovery from multiple tests						

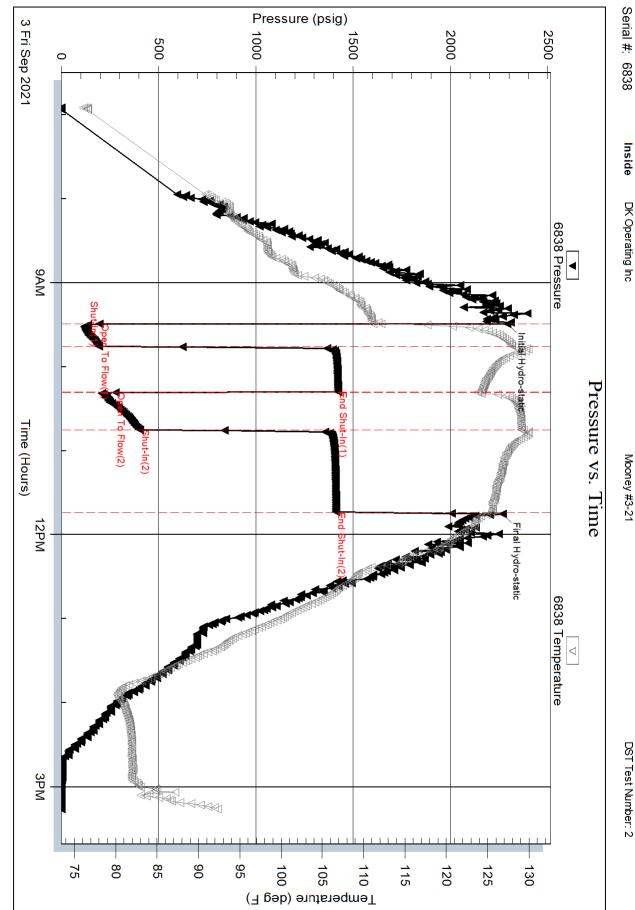
	DRILL STEM TES	T REPO	RT		
	DK Operating Inc		21-22s-21w H	odgeman KS	
ESTING , IN	621 Benton St Jetmore KS 67854+9019		Mooney #3-2 [•]		
	ATTN: Marc Dow ning		Job Ticket: 6776	2 DST#:2 .09.03 @ 06:55:00	
				.09.05 @ 00.55.00	
GENERAL INFORMATION: Formation: Mississippi					
Deviated: No Whipstock Time Tool Opened: 09:29:17 Time Test Ended: 15:16:02	ft (KB)			ventional Bottom Hole encer J Staab	e (Reset)
Total Depth: 4380.00 ft (KB)	4394.00 ft (KB) (TVD) TVD) ole Condition: Fair		Reference Eleva KB to C	2174.00	ft (CF)
Serial #: 8875OutsidePress@RunDepth:psiStart Date:2021.09.0Start Time:06:55:0		2021.09.03 15:16:02	Capacity: Last Calib.: Time On Btm: Time Off Btm:	2021.09.03	psig
30-FF-BOB 1 60-FSI-4 mins Pressure	o bleed off BOB 5 mins Built to 50" nin GTS 23 mins TSTM to bleed off BOB 2 mins Built to 211 s.Time	"	PRESSURE	SUMMARY	
2500	8575 Temperature		Pressure Temp	Annotation	
3FitSp 221		(Min.)	(psig) (deg F)		
Recover	y		Gas F	Rates	
Length (ft) Description	Volume (bbl)		Choke (inche	es) Pressure (psig) Gas	Rate (Mcf/d)
70.00 GMW 20%G 30%M 50 180.00 GOCM 20%G 20%O 60					
1390.00 GO 80%G 20%O	19.70				
* Recovery from multiple tests					
Trilobite Testing, Inc	Ref. No: 67762	1	Drinted: 20	21.09.03 @ 15:45:16	

RILOB		ILL STEM TEST R	EPORT		F	LUID SUMMARY
I IILUD		perating Inc		21-22s-21w	/ Hodgeman	KS
I EST		enton St re KS 67854+9019		Mooney #3		DCT# 2
	A TTN	Mara Downing				DST#:2
	ATTN	Marc Dow ning		Test Start: 20	021.09.03 @ 06:	55:00
Mud and Cushion Info	ormation					
Mud Type: Gel Chem		Cushion Type:			Oil API:	42 deg API
Mud Weight: 9.00 lt	•	Cushion Length:			Water Salinity:	23500 ppm
Viscosity: 53.00 s Water Loss: 10.38 ir		Cushion Volume:		bbl		
	hm.m	Gas Cushion Type: Gas Cushion Pressure:		psig		
Salinity: 30000.00 p				polg		
Recovery Information	I	Pocovory Tabla				
	L or oth	Recovery Table			ו	
	Length ft	Description		Volume bbl		
	70.00	GMW 20%G 30%M 50%W		0.992		
	180.00	GOCM 20%G 20%O 60%M		2.552]	
	1390.00	GO 80%G 20%O		19.704]	
Tot	al Length: 164	0.00 ft Total Volume:	23.248 bbl			
Nu	m Fluid Samples: 0	Num Gas Bombs:	0	Serial #:		
Lal	ooratory Name:	Laboratory Location	:			
Re	covery Comments: 3					
	R	W=.267@78F				
		D-6 No. 07700			0001 00 00 00	

Printed: 2021.09.03 @ 15:45:16

Ref. No: 67762



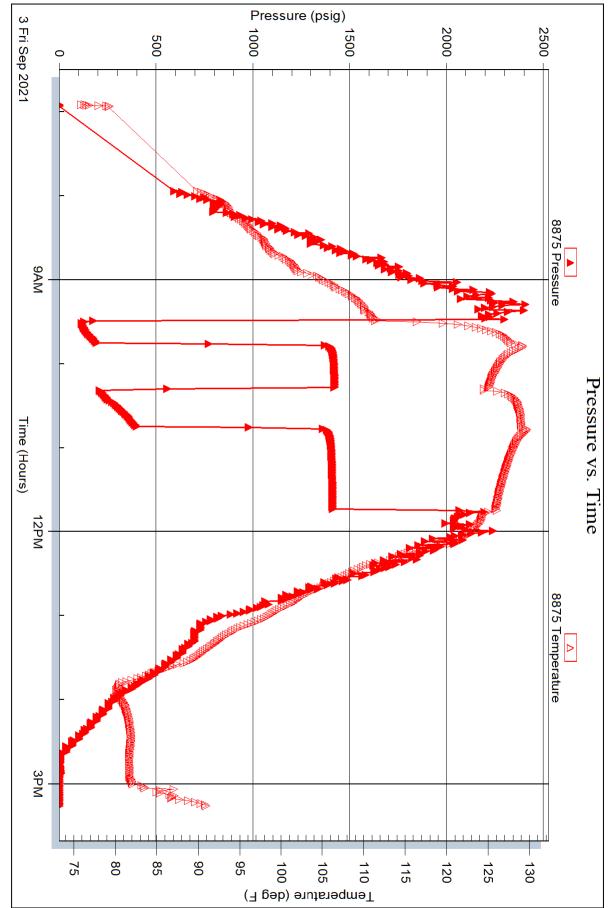


Mooney #3-21

DST Test Number: 2

Printed: 2021.09.03 @ 15:45:16

Ref. No: 67762



Mooney #3-21

Serial #: 8875

Outside

DK Operating Inc

DST Test Number: 2

1 T				1	Drilling Contractor		Dia	krell, Rig #	10			
Marc A. Dov	vning	Geologic]	Renart		Drilling Contractor Commenced							
		Geologie	iceport.		Samples Saved Fron	8-25-21	Comp 3700	То	9-3-21 RTD			
Consulting Petr	roleum	Drilling Time and	l Samnla I	0.0	Drilling Time Kept I		3550	To	RTD			
Geologis	~	Dinnig Thic and	i Sampie I	Jog	Samples Examined I		3550 3700	То	RTD			
Geologis					Geological Supervisi		3700 3700	То	RTD			
			E	evation			3700	10	KID			
Operator DK	Operating, Inc	2	KB	2181								
Lease Moone	у	No. 3-21	DF GL	2179 2174								
API # 15-083-	21993-0000		Casi Surface	ng Record								
Field Moone	y East		8 5/8 Productio	8" @ 220'		Summary a	and Recom	mendation	18			
Location 1389		FWL	5 1/2	" @ 4393' ical Surveys				_	evaluation, it was			
100 M	Twp. 22s	Rge. 21w		None	decided to set 5	1/2" productio						
			-							S	E S	SYMBOLS
County Hodg	man State	Kansas								γPE e, red	ORI	MB
Formation	Sample tops	Log Tops	Datum	Struct Comp						ROCK TYPES	ACCESSORIES	ζ SY
Top Anhydrite	1303		+878	-1				l og 📕	CC CC	ОТНЕК		
Base Anhydrite	NA										A	TO
Heebner	3723		-1542	+4						-		
LKC	3786		-1605	+5						shale, gry Carbon Sh		
BKC	4127		-1946	+3 +6	4					hale, arboi		
Pawnee Fort Scott	4234 4302		-2053 -2121	+10								
Cherokee Sh	4325		-2121	+10								pe alt
Mississippi	4370		-2189	+12							FOSSIL ♦ Oolite	DST DST Int DST alt Core
2010-01-01-01-01-01-01-01-01-01-01-01-01-	0.05 (00++-0		04010400	025977							0 [↔]	
Total Depth	4394		-2213	5						\$		
								Respect	fully Submitted,	Cht Lmst fw7>		75 % 50 %
										L CH		50 1 - 25 e Stn
					4			7 -1 (=1, 122)			Hite L	VS Sth Sth nable iil Sth cence
D - C	 				4			Marc A	. Downing	4	MINERAL → Chert, dark △ Chert White	SHC en S ootted ootted ootted isad O isad O
Reference Well For S C SW NW Sec. 21-22		on Pickrell - Mooney '	'D'' #1							4 4 1	N ອີຊີ ຊ	
C 5W IVW Sec. 21-2.	45-41W											

Fluorescence				
Curve Track #1			Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)	ersion 4.0.8.15 (www.grsi.ca)
I	Cored Interval DST Interval DST Intervals	⊢ γgolodi Nolodi	Geological Descriptions	Comment
	3560			
	3580			
	3590			
	3610 3620			
N	3630			
<u>А л</u>	3640 			
//W\	3660 3670			
	3690			
V\ <u></u>	3700 3710			
	3720		<u>Heebner 3723 (-1542)</u> Sh: Black Carb	
M	3730 		Sh: gry	
M/	3750		cs. carrwrit, mrand xm, dis. Sh: gry-lt gry	
~ <u>\</u>	3760 		Sh: It gry w/ some It grn, soft	
	3790		<u>LKC 3786 (-1605)</u> LS: wht, fn xln, suc in prt, dns.	

t, fn xln, suc in prt. Scat intxln por, mos chlky. All NS and no od, fr amt cht - wh barren. ck Carb ck Carb . wht, tot ool. Vgd ooc por, totally barre h2s od. . wht, fn xln. Trng dns w/ no vis por, sti g od. . drk gry t, fn-vfn xln. Mostly v dns, scat subxln-c barren, carrying od from above. .. Ool w/ scat foss, gd o Fr amt chly rx, all NS. s w/ pr por, NS. s in prt. Scat gd intxl Fotally barren, no od. I sltly suc. Pr por and

																		Vis: 60 Wt: 9.3	DST #1 4340-4380 15-30-45-60	I.F BOB 20 sec, GTS 8 min / Weak Surf SIB, died 2 min	F.F BUB IMM / No SIB IFP: 196-53 FFP: 375-56	SIP: 1374-1347 HP: 2267-2334 Rec:	GTS 5.94 mcf 10 min 5.63 mcf 25 min 5.59 mcf 40 min	90 SOUM (1% OII) BHT: 124 NOTE: After short trip for DST #1 rin did not chain down	# 1, ng up not claim down handle tight enough and brakes fed off slowly. An extra	7-8 ft was drilled and wasn't discovered until drilling commenced after DST #1. DST #1 actual interval tested	is 4340 to ~4387. Vis: 53 Wt: 9.0	DST #2 4381-4394 15-30-30-60 1.E - BOB 10 sec. GTS 12 min	(TSTM) (TSTM) ISI - 8 min to bleed off, BOB 5 min (50")	F.F BOB 1 min, GTS 23 min FSI - 4 min to bleed off, BOB 2 min (211")	IFP: 196-195 FFP: 280-404 SIP: 1423-1413 2292-2267	KeC: GTS - TSTM 1390' GO (20% o) 180' GOCM (20% g, 20% o) 70' GMW (20% g, 50% w) BHT: 126 G: 42 Chlor: 23.5K		
Sh: gry w/ brn	LS: wht, vfn xin, chiky. NS, no od.	LS: trng tan w/ few foss, pr por.	<u>BKC 4127 (-1946)</u>	Sh: brn w/ gry LS: wht, vfn xln dns	Sh: gry	LS: wht-tan, fn-md xln, dns. All NS.	Sh: It gry	LS: wht-lt tan, fn xln dns.	Sh: gry w/ brn	LS: wht, fn-md xIn, subxIn-chlky in prt, all NS.	Sh: gry	LS: wht, fn-md xln, trng ool in prt. Scat fr ooc por, some chlky. Totally barren, fr od (h2s?).	LS: wht, trn fn-vfn xln, pr por, subxln in prt. All NS.	Sh: Black Carb	Sh: gry Dawnaa 4734 (-2053)	1 St tan-wht finantia via No via nor and mostly all v	dns, few subxin rx. Totally barren, no od.	LS: ala w/ more tan. Sh: Rlack Carh			Sh: gry w/ scat brn	Sh: ala	LS: tan-wht, fn xln, dns. No vis por, all NS.	b <u>4302 (-2121)</u>	Pr por, rare resid stn,	ht, fn xin and subxin-chiky. 1-2 rx w/ pr- 5FO, fr-gd od.		LS: wht w/ some tan, fn xln, pr por and dns. All NS, no od.	LS: mostly ala w/ scat subxln rx.		Sh: gry-lt gry	 Osage 4370 (-2189) Cht: wht, some It tan, fr amt fresh w/ slt weath edge. Fr brn stn, 3-4 weath rx w/ gd sat and fr SFO on break. Trng less weath w/ fr amt wht LS, less show. Gd od in 30 min, less in 60 min 	 Cht: trng mostly wht, shp, and fresh. Scat ang vugs on edge w/ fr-gd brn edge stn, spttd SFO, fr od. Smpls v pr, abnt sh and hulls. 	
					- - - - - 																									 			44444 444444 44444 44444	
V V 100	4110	V			4140	4150	4160	4170	4180					4220	4230			4250	4260		4270		VVV	4300				CFS 4334' 4330	4340	4350	A360	4370 4370 CFS 4380' 4380 4380	4381-4386 4381-4386 CFS 4394' CFS 4394'	