KOLAR Document ID: 1709453

Confiden	tiality Requested	1:
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	· 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.xxxxx) (e.gxxx.xxxxx)		
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?		
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 Fermit #	Location of fluid disposal if nauled offsite:		
GSW Permit #	Operator Name:		
	Lease Name: License #:		
Soud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West		
Recompletion Date Recompletion Date	County: Permit #:		

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I II III Approved by: Date:					

KOLAR Document ID: 1709453

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

Page Two

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

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

Drill Stem Tests Taken (Attach Additional Sheets)		Y	′es 🗌 No	[og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo	aical Survey		les No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:	Logs	□ Y □ Y □ Y	és ☐ No és ☐ No és ☐ No						
		Rep	CASING ort all strings set-c	RECORD] Ne	w Used	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
[1		ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Used		Type and Percent Additives			
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fractu 	aulic fracturing treatme total base fluid of the uring treatment informa	ent on this v hydraulic fr ation submi	vell? acturing treatment tted to the chemic	exceed 350,000 al disclosure regi	gallo stry?	Nes Yes	 No (If No, s No (If No, s No (If No, f 	kip questions 2 ar kip question 3) ill out Page Three	nd 3) 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	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITION	N OF GAS:		METHOD OF			TION:		PRODUCTIO	ON INTERVAL:
Vented Sold Used on Lease Open H		Open Hole	_ Perf C <i>(S</i>	ually ubmit	Comp. Com ACO-5) (Subn	nit ACO-4)			
Shots Per Perforation Perforation Bridge Plug Bridge P Foot Top Bottom Type Set A		Bridge Plug Set At		Acid,	Fracture, Shot, C (Amount and Ki	ementing Squeezend of Material Used)	Record		
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Deutsch, Kent A. dba Deutsch Oil Company
Well Name	DIETZ 4-8
Doc ID	1709453

All Electric Logs Run

Dual Induction
Compensated Neutron/Density
Micro
Frac Finder

Form	ACO1 - Well Completion
Operator	Deutsch, Kent A. dba Deutsch Oil Company
Well Name	DIETZ 4-8
Doc ID	1709453

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	14	10.75	50	251	60/40 poz	220	3% cc, .25# cellflake
Production	7.88	5.5	15.5	4294	H-Long	175	0



CEMENT	I TRE	ATMEN	IT REP	ORT						
Cust	tomér	DEUTS	CH OIL	COMPANY	Well:	DIETZ 4-8	Ticket	WP2636		
City,	State:	NATRO	NA KS		County:	PRATT KS	Date:	11/15/2022		
Fíel	d Rep:	a manager			S-T-R:	8-275-124	Service:	SURFACE		
		-		r						
Dow	nhole	Informati	ол		Calculated Sh	nry - Lead	Caic	ulated Slurry - Tail		
Hole	e Size:	14 3/4	in		Blend:	60/40/2 POZMIX A	Blend:			
Mole I	vepth:	250			Weight:	14.8 ppg	Weight:	₽P8		
Casina	g size: Opethy	10 3/4			Water / Sx:	6.2 gal/ax	Water / Sx:	gal/sx		
Tubing	Linae		<u>п</u>		Yield:	1.21 ft"/ sx	Yield:	ft ³ / sx		
f	leath-	754	170 66		Annular Bbis / Ft.:	bbs / ft.	Annular Bbls / Ft.:	hbs / ft.		
Tool / Pa	acker	231			Depth:	#	Depth:	<u>n</u>		
Tool	Denth		#		Annular Volume:	0.0 bbis	Annular Volume:	0 bbis		
Displace	ment	27.7	bbl-		tacia ci		Excessi			
	100 -		STAGE	TOTAL	Total Sturry:	U.U DEIS	Total Skurry:	0.0 bbis		
TIME	RATE	PSI	BBLS	BBLs	REMARKS	U. AX	Total Sacks:	#DiV/01 sx		
10:00 PM				• -	ON LOCATION		·····································			
- 1:15 AM				•	RUN 10 3/4 40.5# CASING			· · · · · · · · · · · · · · · · · · ·		
2:50 AM					CASING ON BOTTOM			· · · · · · · · · · · · · · · · · · ·		
2:57 AM				-	HOOK TO CASING, BREA	K CIRC. WITH RIG				
3:04 AM	5.0	120.0	3.0	3.0	PUMP 3 BBL WATER			······		
3:06 AM	5.0	120.0	47.0	50.0	MIX 220 SKS 60/40/2 POZ	MX A				
3:20 AM	2.0	50.0		50.0	START DISPLACEMENT	START DISPLACEMENT				
3:30 AM		80.0	22.2	72.2	PLUG DOWN, SHUT IN WELL					
					CEMENT TO SURFACE			<i>8</i> 6		
	<u></u>									
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·					AUSTIN & KENNY					
		CREW	18		IIMIT					
Ceme	inter	MATT	AI.]	C110		SUMMARY			
Pump Oper	alor:	CLIFT	ON		179/521	Average Rate	Average Pressure	Total Fluid		
Bul	k#1:	JULIA	N		523/533	<u>a.u opm</u>		72 bbis		
Bul	k #2:									



CEMENT TREATMENT REPORT

Bulk #2

Gustomer: DEUTSCH OIL COMPANY Well: DIETZ 4-8 Ticket: WP3656 City, State: NATRONA KS County: PRATT KS Date: 11/22/2022 Field Rep: TERRY BAIRD 8-27S-12W S-T-R: LONGSTRING Service: **Downhole Information Calculated Sturry - Lead** Calculated Slurry - Tail Hole Size: 7 7/8 in Blend: H-LONG H-PLUG A Blend: Hole Depth ft Weight 15.0 ppg Weight: 13.78 ppg **Casing Size:** 5 1/2 In Water / Sx: 6.0 gai/sx Water / Sx: 6.9 gal/sx Casing Depth: ft 1.42 ft3 / sx Yield: Yield: 1.43 ft3/sx Tubing / Liner: in Annular Bbis / Ft. bbs / ft. Annular Bbls / Ft.: bbs / ft. Depth: 4294 ft Depth: ft Depth: ft Tool / Packer: Annular Volume: 0.0 bbls Annular Volume: 0 bbis **Tool Depth:** ft Excess Excess **Displacement:** 101.7 bbls Total Slurry 44.3 bbis Total Slurry: 0.0 bbls Total Sacks: 175 sz. Total Sacks: 75 TIME RATE P51 BBLS 88Ls REMARKS 1:00 AM -ON LOCATION 1 RUN 5 1/2 15.5# CASING WITH BAFFLE SHOE JOINT 22.87 TURBOS 1-7 BASKET ON #7 3:00 AM 4:57 AM CASING ON BOTTOM 6:09 AH HOOK TO CASING, BREAK CIRC, WITH RIG 7:02 AM 2.0 25.0 7.0 7.0 MIX 30 SKS H-PLUG FOR RAT HOLE 7:08 AM 2.0 25.0 5.0 12.0 MIX 20 SKS H-PLUG FOR MOUSE HOLE 7:13 AM 300,0 5.0 7.0 19.0 MOX 25 SKS H-PLUG AS SCAVENGER 7:16 AM 5.3 200.0 44.3 63.3 MIX 175 SKS H-LONG 7:30 AM 4.0 40.0 7.0 WASH PUMP AND LINE 7:35 AM 2.6 10.0 2 START DISPLACEMENT 8:01 AM 2.5 110.0 60.0 60.0 LIFT PRESSURE 8:08 AM 550.0 3.1 80.0 140.0 20 BBL TO GO 8:15 AM 1.540.0 101.7 241.7 PLUG DOWN, RELEASED AND HELD . CIRCULATION THROUGH JOB • . -. --JOB COMPLETE, THANK YOU! lo MIKE MATTAL . AUSTIN & KENNY CREW UNIT SUMMARY Cementer: MATTAL 912 Average Rate Average Pressure Total Fluid Pump Operator: CLIFTON 179/521 3.3 bpm 311 psl 312 bbls Bulk #1: JULIAN 182/534

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Fracture Start Date/Time: Fracture End Date/Time: State:	01/23/2023 1:00PM 01/23/2023 9:00PM KS	Frac Focus
County:	Pratt	Chemical Disclosure Registry
API Number:	35-000-00000-0000	(e.g. XX-XXX-XXXX-0000)
Operator Number:	D	3.0
Well Name:	Dietz 4-8	
Federal Well:	No	
Tribal Well:	No	
Longitude:	-97.12345	
Latitude:	35.12345	
Long/Lat Projection:	NAD83	
True Vertical Depth (TVD):	4,173'	
Total Clean Fluid Volume* (gal):	375,690]

Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	1.00	375,690	3,135,133
Sand	2.65	181,610	181,610
LB-1	0.97	94	761
LBC-2-SP-680	0.93	94	730
PSC Frac1	1.02	179	1,524
FRA-1	0.99	129	1,066
PB-1-FR Breaker	1.02	72	613
KCL-LC	1.15	180	1,727
PropCure XA	1.02	11	94
PropCure XB	1.12	6	56
MBE	0.90	20	150
	•		Total Slurry Mass (Lbs)

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% hy mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-nnn-nnnn)
Water	Company	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,135,133	94.33332%						
Sand	Santrol	Proppant	Crystalline Silica	14808-60-7	99.00%	179,794	5.40984%						
LB-1	CrudeChem	Biocide	Disodium Peroxodisulphate	7775-27-1	100.00%	761	0.02289%						
			Methanol	67-56-1	30.00%	228	0.00687%						
LBC-2-SP-680	Strategy Oilfield	H2S Scale Inhibitor	Corrosion Inhibitor	Proprietary	70.00%	511	0.01537%		Strategy Oilfield	Greg	Ferguson	gferguson@strategyoilfield	er 940-736-0352
		a	Methanol	67-56-1	30.00%	219	0.00659%				-		
PSC Fraci	Strategy Oilfield	Surfactant	Surfactants	Proprietary	40.00%	609	0.01834%		Strategy Oilfield	Greg	Ferguson	gterguson@strategyoilfields	er 940-736-0352
FKA-1	Cnemplex Cnemical	Friction Reducer	Conclumer of 2 Propagamide	064/42-4/-8	20.00%	213	0.00041%						
			Ammonium Chloride (NH4)CI)	12125 02 9	1.00%	11	0.00032%						
			Oleic Acid Diethanolamide	93.83.4	1.00%	11	0.00032%						
			Water	7732-18-5	60.00%	639	0.01924%						
PB-1-FR Breaker	Enduro-Tech Energy	Friction Reducer	Water	7732-18-5	95.00%	582	0.01752%						
			Sodium Chlorite Solution	7758-19-2	25.00%	153	0.00461%						
KCL-LC	Chemplex	Potassium Chloride Substitute	Water	7732-18-5	100.00%	1,727	0.05198%						
			Calcium Chloride	10043-52-4	2.00%	35	0.00104%						
			Choline Chloride	67-48-1	35.00%	605	0.01819%						
PropCure XA	Hexion	Amidoamine	Fatty Acid Polyamine Condensate	Proprietary	25.00%	23	0.00070%		Hexion	Logan	Cabori	logan.cabri@hexion.com	405-301-5073
			Solvent Naphtha (petroleum), Heavy Arom	64742-94-5	10.00%	9	0.00028%						-
			3,6,9,12-Tetraoxatetradecan-1-01	5650-20-4	5.00%	5	0.00014%						
D G 100			Naphthaiene	91-20-3	1.00%	1	0.00003%						
PropCure AB	Hexion Bester Selvente	Epoxy	4,4-isopropylidenedipnenoi-Epicnioronydrin Copolym	25068-38-6	/5.00%	42	0.00127%			-			-
MDE	Barton Solvenis	Cleaner	Euryrene Grycor Monoburyr Eurer	111-76-2	100.00%	150	0.0043270						
													-
										-			-
										-			-
	+												
	+	+	1	1						1	1		1
	1	1	1						1	1			1
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	1	1							1		1		
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	1	1	1						1	1			1
		1	1							1			1
* Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100% listed was obtained from the													



							Total Slurry Mass (Lbs)						
Ingredients Section:													
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-nnn-nnnn)
Water	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00%								
	+				+								
	1												
	1												
	1	1	1	1	I	11			1		1	1	I
*Total Water Volume sources may include fresh water, produced water, and/or recycled water **Information is based on the maximum potential for concentration and may the total may be over 100%													

d was obtained from the



3700 SH: GR LANSING 3709 LS: TAN For You Fors -1829 N.S. SH: Gry LS: TAN Pass CHerry SLIGHY STONIOS 50 No Filte On SU: GRY 18: The Frex Kin Fors Fortento GD. UNG of N.S. LS: TOL FA YA FOSS POOR & N.S. 3800 A.A Stor Gry Ks: The Fo XN Fors SI. GLERY GO & Nos 50 LS: FAN FUX + FOSS Go colic teasric of Still SH: GAT 3900 LSI TANFAKIN Fras FAIR & N.S. LS; TAW For Xo Fass 60. Jus of Sh avery N.S. LS: TAN DUS NIS. 50 SH: Gry LS: TOWFN YN FOS Poor & N.S. Spl: Gay 4000 Ls: TAN FN Xu Foss DNS Poor of N.5 LS: TAN FN XN FESS long SL. STON 52. 50 B/kc STAN SPIGR 4060 -2180 LS: TOW For YN- Forse CHURY FAIR of. N.S. LS: TAU FAXIN FOSS SL. OIL Show FAIR to GP. UNG & 4100 St. Ghaw all SH: Gry MISSIPPI 4120 - 2240 Good Ollegas Sheu CHERT: Held to loky WETHEREN GD. SHOW OILCOM 60. Ron 60.000R CHURT: WIN to bey WEDTUERED AND FRESS 50 GO SHOW ON & GOS GO GOOR + FLOR. CHERT: MOSTY FRESH 60 SHOW OIL = 645 60 over & Flor CFS C4192 F4 LSI Gry to BUER For Yn CHERRY DNS 4200 Poord N.S. CHENT: IN/AL to TAN MOSPAY FAESU Stow Some FRET OIL Epler-DIC MOSTY BUE DEED ON STN GD. Pop Lo. 6ky Fn Xa Foss. Poor & DUS 50 N.S 521- 6m VIDEM 4279 - 2599 DOL: Nell Chang DEND OIL STAN V. SL SHOW FREE DIL Vony SL. SHOW Oll No onon CF5@ 4300 F/-4300 0 LITHOLOGY 10" 15" 20" 25" 5" SHOWS DEPTH SAMPLE DESCRIPTIONS REMARKS DRILLING TIME Minutes/Foot Rate of Penetration Decreases OPERATOR DENTSCH DIL Co. LOCATION 1650 FSC & 330'FINL LEASE DIKTZ #4-0 RNG 12W B 27 TWP_ SEC___ __ IP_ ELEVATION 1880 FA. KIB. RTD 4300 / _____ STATE __ KANSAS COUNTY KRATT