

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1231566

Form ACO-1 August 2013 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. 15				
Name:	Spot Description:				
Address 1:	SecTwpS. R East West				
Address 2:	Feet from				
City: State: Zip:+	Feet from _ East / _ West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:				
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows: Operator:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet 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 ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #: ENHR Permit #: GSW Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name: License #:				
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. TwpS. R East West 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
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

Page Two



Operator Name:				_ Lease l	Name: _			Well #:		
Sec Twp	S. R	East V	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whether s with final chart(shut-in pre s). Attach	ssure reac extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, flui	d recovery,
Final Radioactivity Lo- files must be submitte						gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital el	ectronic log
Drill Stem Tests Taker (Attach Additional S		Yes	No				on (Top), Depth ar			mple
Samples Sent to Geo	logical Survey	Yes	☐ No		Nam	e		Тор	Da	tum
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
			CASING		☐ Ne					
	0: 11-1-	· ·				ermediate, product		# O	T	d Damasat
Purpose of String	Size Hole Drilled	Size Cas Set (In O		Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used		d Percent itives
		AD	DITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Ce	ement	# Sacks	Used	Type and Percent Additives				
Perforate Protect Casing										
Plug Back TD Plug Off Zone										
Did you perform a hydrau	•					Yes	No (If No, ski	p questions 2 ar	nd 3)	
Does the volume of the to							= :	p question 3)	of the ACO	()
Was the hydraulic fractur	ing treatment information	on submitted to the	e chemicai d	isciosure re	gistry?	Yes	No (If No, fill	out Page Three	or the ACO-1	<i>)</i>
Shots Per Foot		ION RECORD - I Footage of Each I					cture, Shot, Cement mount and Kind of Ma		d	Depth
TUBING RECORD:	Size:	Set At:		Packer A	i:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. Prod	ducing Meth	ıod:		1				
			Flowing	Pumpin	g	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls. (Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	METHOD OF	COMPLE	ETION:		PRODUCTION	ON INTERVA	
Vented Sold		Open		Perf.	Dually	Comp. Cor	mmingled			
	bmit ACO-18.)		(Specify)		(Submit)	ACO-5) (Sub	mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Hupfer Operating, Inc.
Well Name	Heine 3
Doc ID	1231566

Tops

Name	Тор	Datum
Heebner	2835	-1050
Toronto	2858	-1070
Douglas	2866	-1079
Brown Lime	2951	-1166
Lansing	2980	-1195
Base K.C.	3245	-1460
Arbuckle	3273	-1480
RTD	3284	-1499



P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: Hupfer Operating	g, Inc.	Lic# 30380	Contractor:	Discovery	Drilling Co., Inc.	LIC#31548
P.O. Box 3912				PO Box 763		
Shawnee, KS 6	6203-0912			Hays, KS	67601	
Lease: Heine # 3			Location:	990 FSL - 3	30 FWL	
				NW/SW/SV		
				Section 28/	19S/ 10W	
				Rice County	y, KS	
Loggers Total Depth: 3282'			API#15-	159-22,791-	-00-00	
Rotary Total Depth: 3284			Elevation:	1777 GL - 1	785 KB	
Commenced: <u>9/4/20</u>			Completed:	9/10/2014		
Casing: <u>8 5/8</u> '	' @ 3276'VV/120sks		Status:	Oilwell	- 0	
S						
						
	DEPTI	HS & FORMA	TIONS			
		(All from KB)				
Surface, Sand & Shale	0'	_	Shale		399'	
Dakota Sand	74'	-	Shale & Lime		1229'	
Shale	100'	-00	Shale		2068'	
Cedar Hill Sand	149'	-	Shale & Lime		2274'	
Red Bed Shale	206'	52	Lime & Shale		2871'	
Anhydrite	394'	,	RTD		3284'	
Base Anhydrite	399'					
STATE OF KANSAS))						
) ss COUNTY OF ELLIS))	1		
Thomas H. Alm of Dis	covery Drilling states	that to the hee	f of his knowle	ldan A	\cap	
he above and foregoing is a	true and correct log o	f the above ca	otioned well.	rage /	Y	
		1 Mi	mas E	/.	1	
	9	Thomas H. Al	m	<u> </u>		
Subscribed and sworn to befo	ore me on					
My Commission expires:			##			
Place stamp or seal below)		Materia Barri				
		Notary Public				

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 631

Cell 765-324-1041			1000 400		44 - 47 - 47			
Date 9-9-14 28	Twp. Range	Ro	County	KS	On Location	Finish / SAA		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Location	on Filler	wood Ks -	E to 3rd	Rd. 1215		
Lease Heine	Well No. 2)	Owner E	100 confe	1 bi			
Contractor Discovery 2	- 1		To Quality O	ilwell Cementing, Inc	C.	nt and furnish		
Type Job Longstring					t cementing equipme vner or contractor to o			
Hole Size	T.D. 3,284°		Charge	woter noe	rations	d 9.2		
csg. 55" New 15,50#		4'	Street	SYLO PA	3			
Tbg. Size	Depth		City		State			
Tool	Depth	-	The above wa	s done to satisfaction	and supervision of owner	r agent or contractor.		
Cement Left in Csg. 35, 35	Shoe Joint 35	.301	Cement Amo		Com 10%5	21+ 5% Gilson		
Meas Line	Displace 77	BUS	500 ag	al mud C	lear 48			
EQUIPA	MENT		Common	170		<u> </u>		
Pumptrk / No. Cementer Helper 5	Ma		Poz. Mix					
Bulktrk 14 No. Driver Driver	d		Gel.					
Bulktrk D. U. No. Driver Driver	ick		Calcium			1		
JOB SERVICES	& REMARKS		Hulls					
Remarks:	r _a t	Juni e	Salt /6		15°C 2.5°			
Rat Hole	2		Flowseal			170		
Mouse Hole			Kol-Seal &	50 th				
Centralizers 2, 7,9,//	(A**		Mud CLR 48 500 9a0					
Baskets 5		y.	CFL-117 or (CD110 CAP 38				
D/V or Port Collar Dipp on	bottom bre	ak	Sand	ence and the second	9 1 1			
icculation pun	no 500 gal m	rud 🛚	Handling /	94				
Clear 48, plug R	Whole wi 30	8×	Mileage					
plus mousehole w	120 sy Hook	16	4	FLOAT EQUIPM	MENT	Na		
	O Sx Cement.		Guide Shoe					
Shut down @	wash oump	á	Centralizer	4 turbos	S			
lines Released plu	x & Displace	L	Baskets		****			
plus w/77 B	K.	70	AFU Inserts		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			
Released	" held	Y	Float Shoe	<u> </u>				
		7	Latch Down			30		
Lift pre	ssure 600	H	1- Par	ckec shoe	<u> </u>			
Land plucy	(40 1600 t		Pumptrk Cha	arge Oved	Tring			
			Mileage /	7				
* 22	\$ a	4.5	5 F 2 G	(3 2 A 1	Tax	(
		/	2 V	98 KO 5	Discoun	t =		
X Signature			9 112	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Charge	,		

LWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 **QUALITY OILWEI**

ne 785-483-2025 A 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 627

				A service of the service of	and the survey of the survey
Date 9-4-14 28	Twp. Range	Rice	K State	On Location	Sign PY
Heine		Location Ellipsi	and Ki - F	to 38d	Rd 120
Lease	Well No. 3	Owner E	1< 5to	by free	P
Contractor Discovery	2	To Quality O	ilwell Cementing, Inc.) ,	
Type Job Surface		cementer an	d helper to assist own	er or contractor to d	o work as listed.
Hole Size 21/4"	T.D. 3041	Charge 1	unfer one	edinor	тик но 33
Csg. 85%"	Depth 3041	Street			
Tbg. Size	Depth	City	H was a superior	State	- 0:
Tool	Depth	The above wa	s done to satisfaction an	d supervision of owner	agent or contractor.
Cement Left in Csg. 201	Shoe Joint 201	Cement Amo	ount Ordered 225	Common	3% (2%
Meas Line		SCS YUHFIOTE	Ral		1 =
EQUIP	MENT	Common 2			
Pumptrk No. Cementer O	sta -	Poz. Mix	2 %		
Bulktrk 3 No. Driver Driver	ne m	Gel. 5		***	2
Bulktrk D. U. No. Driver Co.	V	Calcium 9		0 , 10 1 0	
JOB SERVICES	& REMARKS	Hulls		213 - 201 MATHEMATICAL INC. 12	T
Remarks: Cement	ded Circul	1		# * P-	
Rat Hole		Flowseal	· · · · · · · · · · · · · · · · · · ·		
Mouse Hole	·*	Kol-Seal	E 7	701	
Centralizers		Mud CLR 48			
Baskets		CFL-117 or C	D110 CAF 38		
D/V or Port Collar		Sand		n , 05	
		# Handling_2	39		
		Mileage			2.0 (2 ,11
	Z ()		FLOAT EQUIPME	NT	
		Guide Shoe			101
		Centralizer	***		
		Baskets	° 25		
		AFU Inserts			
		Float Shoe	I BOTAT		
		Latch Down		1	
San Park Car					14
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Share	
		Pumptrk Cha	rge Surface		
		Mileage / 9	7		5.
		7 /		Tax	
	, 0	9	20 20 24	Discount	
X Signature Jet L	1-1		Territory and the second	Total Charge	
Gigiratore v			40		<u> </u>

HEINE #3 - S2 Of SW/4 Sec. 28-19-10W, Rice CO. DST'S & COMPLETION

DRILL STEM TESTS: HEINE #3

- DST #1: Lansing 2956' to 3086'. 30-45-30-60. Recovered 126' GIP and 50 ' VSOCM. ISIP 363, FSIP 420, IFP 27-27, FFP 26-35.
- DST #2: Arbuckle 3243' to 3279'. 45-45-45-60. Recovered 365' GIP, 68' muddy oil, 70% oil and 25' clean gassy oil. ISIP 705, FSIP 705, IFP 14-29, FFP 34-42.
- DST #3: Arbuckle 3243 to 3284'. 45-45-45-60. Strong blow with blow back.

 Recovered 675' GIP, 240' oil and heavy oil cut mud. ISIP 747, FSIP 676,

 IFP 15-58, FFP 66-85.
- COMPLETION: Drilled Packer Shoe Swab down, Good show of oil. Acidized w/ 250 gals. 15% mud acid. Swab down. Swabbed 6 BFPH, 50 oil.

 Overnight fill up 1850' with 950' oil on top. Run tubing & rods.