KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

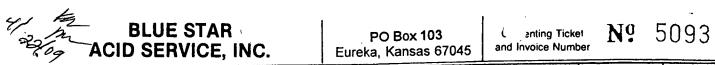
ORIGINAL Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33209	API No. 15 - 017-20847-6000
Name: Penn Virginia Oil & Gas Corporation	Spot Description:
Address 1: Seven Sheridan Square, Suite 200	NW4 - NE4 Sec. 27 Twp. 21 S. R. 6
Address 2:	
City: Kingsport State: TN Zip: 37660 +	Feet from East / West Line of Section
Contact Person: Jim Burns, Operation Manager	Footages Calculated from Nearest Outside Section Corner:
Phone: (423) 723-0230	□ NE □ NW □ SE □ SW
CONTRACTOR: License # 32854	County: Chase
Name: Gulick Drilling Company, Inc.	Lease Name: Mercer 27-2 Well #: 2
Wellsite Geologist: None	Field Name:
Purchaser: None	Producing Formation: _ Rowe and Riverton Coals
Designate Type of Completion:	Elevation: Ground: 1325 Kelly Bushing: 1333
New Well Re-Entry Workover	Total Depth: 3550 Plug Back Total Depth: 3531
Oil SWD SIOW	Amount of Surface Pipe Set and Cemented at: 229 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set: Feet
Dry Other(Core, WSW, Expl., Cathodic, etc.)	If Alternate II completion, cement circulated from:
If Workover/Re-entry: Old Well Info as follows:	feet depth to: w/ AI+1- Dg-H/25/09
Operator:	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content:ppm Fluid volume:bbls
Deepening Re-perf Conv. to Enhr Conv. to SWD	Dewatering method used:Dispose of Drilling Fluids in Mercer 24-4-4SWD Docket # D-28,253
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Docket No.:	Location of hold disposal if hadied offsite.
Dual Completion	Operator Name:
Other (SWD or Enhr.?) Docket No.:	Lease Name: License No.:
11/04/2003 11/10/2003 11/22/2003	QuarterSecTwpS. R East West
Spud Date or Date Reached TD Completion Date or Recompletion Date	County: Docket No.:
Kansas 67202, within 120 days of the spud date, recompletion, workover or confidential for a period of 12 months if rec	the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information quested in writing and submitted with the form (see rule 82-3-107 for confidential report shall be attached with this form. ALL CEMENTING TICKETS MUST rm with all temporarily abandoned wells.
All requirements of the statutes, rules and regulations promulgated to regulate tare complete and direct to the best pmy knowledge. Signature:	he oil and gas industry have been fully complied with and the statements herein
Title: OBERATIONS MANAGER Date: 4/20/200	KCC Office Use ONLY
OF John Co.	Letter of Confidentiality Received
Subsected ANNESS before the this 2000 day of Uprul	If Denied, Yes Date:
20 09 NOTARY BY	Wireline Log Received
Notary Pagic Sulson	Geologist Report Received RECEIVED
Date Commission Expires: 8-19-2009	APR 2 1 2009

Side Two

Operator Name: Per	nn Virginia Oil & Ga	as Corporation	Lease N	Vame: _	Mercer 27-2		Well #:2	(serve-HFHIII)
Sec. 27 Twp. 21 S. R. 6				Chas	е			
time tool open and cl recovery, and flow rat	osed, flowing and shu	d base of formations per t-in pressures, whether s st, along with final chart(eport.	shut-in press	sure read	ched static level	, hydrostatic p	oressures, bottom	hole temperature, fluid
Drill Stem Tests Take		☐ Yes 📝 No		V L	og Formatio	on (Top), Dept	h and Datum	Sample
Samples Sent to Geological Survey				Nam Et Sc			Top 2718	Datum 1385
Cores Taken Electric Log Run (Submit Copy)				Ft Scott LS Cherokee Group Mississippian			2732 3330	1399 1997
List All E. Logs Run: Density, Neu	tron, Induction							
		CASING	RECORD	Ne	w Used			WALLES TO STATE OF THE STATE OF
Purpose of String	Size Hole Drilled	Report all strings set- Size Casing Set (In O.D.)	conductor, sur Weig Lbs./	jht	rmediate, product Setting Depth	ion, etc. Type of Cement		Type and Percent Additives
Surface	12 1/4"	8 5/8"	23		229'	Α	165	3% Cacl2
Production	7 7/8"	5 1/2"	15.5		3532	А	200	4% Gel, 8# Cal Seal
		NATE (7.10 MARIE)						2% CaCl2, 4# Kol Seal
		ADDITIONAL	CEMENTIN	iG / SQU	EEZE RECORD			
Purpose: Depth Top Bottom Protect Casing Plug Back TD Plug Off Zone		Type of Cement	pe of Cement #Sacks U		Type and Percent Additives			
Shots Per Foot	PERFORATION Specify F		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth					
1	3128-3131; 3164-3166	; 3169-3172; 3176-3178; 31	181-3183; 319	93-3206	50,000 LB S	Sand, 857 B	W, 1000 Gal 15	5% Acid 3128-3206
	***************************************							RECEIVED
								APR 2 1 2009
TUBING RECORD:	Size: 3/8"	Set At: 3381	Packer At:	;	Liner Run:	Yes [✓] No	CC WICHITA
Date of First, Resumed 02/01/2004	Production, SWD or Enh	r. Producing Meti	*****	Flowing	y ✓ Pumpii	ng 🔲 Ga	p	er (<i>Explain</i>)
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Wate	er B	bls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF GAS:	A	METHOD OF	COMPLE	TION:		PRODUCTI	ON INTERVAL:
Vented Solo	Used on Lease	Open Hole Other (Specify)	Perf.	Dually	Comp. 🗸 Cor	mmingled		



15-03 17-03 17-05 17-0								1	
Content Contents Contents Co	Date	Customer Order No.	Sect.	1 '	Range	Truck Called Out	On Location Am		
Renal Membra ON & GAS Carp. Gulick Delg. Co. Renal Membra ON & GAS Carp. Sum Sum Sum Renal State Sum Sum Renal State Renal Sum Renal Sum Renal Sum Renal Sum Sure By Sum Guster Sure By Sum Guster Renal Sum Renal Sum Sure By Sum Guster Sure Guster Sur	11-5-03				6E	9.30		1.70	1,43
SURFACE SUR			_	_	_ ,		-	1400000	y & Cas Casa
250 E. Stone De. Speed 10 Kingsport To. 37660 Sule with the stam Mercore 27-2 Place Mercore 27-2 Place Chare Kingsport	TENN-VIrgi	NIA OILEGAS C	ORP. CI	SULICK	DR/9	<u> </u>	State	VITAINIA O	ICE GAS CORP.
Week 1 from 1 fr		_	440	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			750	27660	
Megaco 29-29 Dough a You! Sar 33' Page of the Committed Committed SCHERCE SURFACE S	2550 E. STO Well No. & Form	one DR. STE		nmasp	071	County		State	
Agend of zone and the special content of the	Megree	22-2-2				Chase	,	KANSAS	
Agend of zone and the special content of the	Depth of Well	Depth of Sab	g New	Size	85/8		124		Request
SURFACE Price Indeps Case Truck to, M21	<i>233</i> ′	233'	S Used	Weight_	23*	Amt. and Kind of Cement			Necessity 70 feet
Remarks SAFETY Meeting: Rig up to 8% Casing. Break	Kind of Job					1 ''	····· (e	Flotary	HOI
Price Relievence No. # 1 Circulation with 10 BBL Fresh water Miles 165 sts 160		SURFACE							
Price Relievence No. # 1 Circulation with 10 BBL Fresh water Miles 165 sts 160			- Rem	arks SAF	ety M	lecting: Rig	up to 84	8 CASING	BREAK
Proce of Job #25.00		st j		rcula	tion (with 10 Bbl	TRESH W	Ater. MIX	red 165 sks
Pice of 100	Price Reference No.		- 🛱	POULAR	Cem	ent with 3	% CAcl2	1/2# +1	ocele Peelsk
Second Stage Displace with 13, 5 Bbl Fresh wake, Shut Casing in. Good Cement Returns to Surface = 8 Bbl Sturry 38 SKS, Job Complete, Rig down. Total Charges 537.50 Committed Kevin McCoy Helpin Milke Justin District Eureka The above pb was done under supervision of the owner, operator, or his agent whose signature appears betw. Thank You Sales Ticket for Materials Only Osanity Sacts BRAND AND TYPE PRICE TOTAL 165 SKS Regular Class "A" Cement 9,75 1278.75 465 # Cacl2 3% .35 162.75 B2 # Frocele 1/2 # PCR/SK .700 82.00 RECEIVED APR 2 1 7009 KCC WICHITA 2 8 8 8 × 12 14 Centralizers .753.00 .753.00 1 8 9 8 Wooden Plug .755 .756 Milesge 50 .80 .370.00 Delivered by # 22 .726.50 Delivered from Eureka .726.71 Delivered from Eureka .726.71 Delivered from Eureka .726.72 Sales Tax 6.3% .771.771	Price of Job	425.00	- l ä	14.8	# per/c	AL Vield 1.	18. ShuT		
Common C	Second Stane		7	ISALACE	wit	6 13.5 Bbl	Fresh W	atee. Shi	UT CASING IN.
Sales Tickel for Materials Only		112 50							
Total Charges	Mileage 30 /	112,30							
Comeniar New IN INC Cox Helper MIKK, Justin District Eureka The above jeb was done under supervision of the owner, operator, or his agent whose signature appears below. Thank You Agent of contractor or operator Sales Ticket for Materials Only Quantity Sacks BRAND AND TYPE PRICE TOTAL 165 5KS Regular Class "A" Cement 9.75 1278.75 465 # Cacl 2 3% .35 162.75 B2 # Flacele 1/2 # Perlist 1,000 82.00 RECEIVED APR 2 1 2009 KCC WICHTA 2 8 8 x 12 1/4 Centralizers 153.00 153.00 1 8 9 Cement Basket 153.00 153.00 1 8 9 Wooden Plug 165 5KS Handling & Dumping .50 82.50 Plugs 7,75 Tons Mileage 50 .80 3/10.00 Pulse Total 9.71.717	Other Charges		_]	<u> </u>	100	Complete	11.9 0000	· ·	
Comerior Device Mike Justin Desire Eureka The above jib was done under supervision of the owner, operator, or his agent whose signature appears below. Thank You Agent of contractor or operator. Sales Ticket for Materials Only Quantity Sacks BRAND AND TYPE PRICE TOTAL 1655KS Regular Class "A" Cement 9.75 1278.75 465 # Cacl 2 3% .35 162.75 82 # Flocele 1/2 # Perlist 1,000 822.00 RECEIVED APR 2 1 2009 KCC WICHTA 2 858 X 1214 Centralizers 153.00 153.00 153.00 1 858 Cement Basket 153.00 153.00 153.00 1 858 Wooden Plug 165 5KS Handling & Dumping .50 82.50 Plugs 775 Tans Mieage 50 .80 3/10.00 Pugs Sales Tax 6.3% 171.77	Total Charges	537.50	_						
Helper Mike, Justin District EUREKA State KS			IJ —						
Sales Ticket for Materials Only Agent of contractor or operator		, .				· · · · · · · · · · · · · · · · · · ·			
Sales Ticket for Materials Only Sales Ticket for Materials Only	Helper MIKE	Justin	Distri	ici EUR	REKA		Slale	K5	
Sales Ticket for Materials Only Sales Ticket for Materials Only	The above job was d	fone under supervison of the o	wner, operator, or h	_			1 dun	v	
Quantity Sacks BRAND AND TYPE PRICE TOTAL 165 SKS Regular Class "A" Cement 7.75 1278.75 465 # Cacl2 3% .35 162.75 82 # Flocele 1/2 # Per SK .100 82.00 RECEIVED APR 2 2009 APR 2 2009 Colored to the state 1.8 % Cement 2.5 % 2.5 % RECEIVED APR 2 2009 APR 2 2009 .53.00 .53.00 S5/8 Wooden Plug .50 45.00 .50 .50 Plugs 7.75 Toris Milege 50 .80 3/0.00 Celivered by #22 Discount .50 .50 Delivered from EUREKA Sales Tax 6.3% 171.77				ThA	WK Y	u		^	gent of contractor or operator
Quantity Sacks BRAND AND TYPE PRICE TOTAL 165 SKS Regular Class "A" Cement 7.75 1278.75 465 # Cacl2 3% .35 162.75 82 # Flocele 1/2 # Per SK .100 82.00 RECEIVED APR 2 2009 APR 2 2009 Colored to the state 1.8 % Cement 2.5 % 2.5 % RECEIVED APR 2 2009 APR 2 2009 .53.00 .53.00 S5/8 Wooden Plug .50 45.00 .50 .50 Plugs 7.75 Toris Milege 50 .80 3/0.00 Celivered by #22 Discount .50 .50 Delivered from EUREKA Sales Tax 6.3% 171.77					7				
165 sks Regular Class A" Cement 2.75 1278.75 162.75 16				Sales	s licket to	or Materials Uniy	<u> </u>	55/05	TOTAL
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APR 2 1 2009 KCC WICHITA 2 8 8/8 x 12/14 Centralizers 1 8 9/8 Cement Basket 1 53.00 153.00 1 8 5/8 Wooden Plug 1 65 5ks Handling & Dumping .50 82.50 Plugs 7,75 Tons Mileage 50 .80 3/10.00 Sub Total 2,726.50 Delivered by #22 Delivered from EUREKA Sales Tax 6.3% 171.77	82 #	Flocele 1/2	# PER ISK					1.00	82.00
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Sub Total 2,726.50 Delivered by # 22 Discount Delivered from EUREKA Sales Tax 6.3% 171.77	Plugs						age 50	. 80	310.00
Delivered by # 22 Delivered from EUREKA Discount Sales Tax 6.3% 171.77									2,726.50
Delivered from EUREKA Sales Tax 6.3% 171.77		Delivered by # 22				Disc	ount		
			I P P KA			Sale	es Tax	6.3%	171.77
Signature of operator		Signature of operator	Ka.	· 1	10/	Tota	ai		2898.27

12 A	BLUE STAF		РО	Box 103	amenting	Ticket NO	2 5125
22 A	CID SERVICE,	INC.	Eureka, k	(ansas 67045	and Invoice	Number	
Dale /	Customer Order No.	Sect. Twp	Range	Truck Called Out	On Location	Job Began	Pm Job Completed pm
11-10-03		127 21	5 6E	12:30	2:30	3:00	4:20
Penn-UIF Mailing Address	gINIA DIL É GAS	Corp. Cuty	lick Delg	». Co.	Perv		OIL & GAS CO
2550 F.	Stove DR. STE #	110 11	NO SARIT		Tw.	37660	
Well No. & Form	Pla		vgspvri	County		State	
Mercer	#27-2			Chase	-2	KANSA	75
3550	Depth of Sol	Sized Sized Sizes	e 52 eight 15,50	Size of Hole — Amt. and Kind of Cement —	7 8 200 SKS	Cement Left in casing by	Request O teet
Kind of Job	1			Drillpipe	·-····································	Rotary	# 0,
	Kongstring		 	Tubing		Cable / Truci	k No. #21
		Remarks <u>S</u>	AFETY ME	eting: Big.	up to 5:	CASING.	Break
Price Reference No	. # /	CITCUI	Ation WIT	4 10 BH +	-resh wa	tee. MI.	xed 200 sks
Price of Job	665.00	Thick	Set Cer	ment with	4# KOL	-SEAL PE	USK @ 13.61
•		Per/64	L. (YIEIO		UT down	. WASh	out Pump é
Second Stage		Lines.	Kelease	Plug. Dis	olace u	11th 841	BBL FResh
Mileage <u>50 ></u>	112.50	WAtee	1	Pumping 1	ressure	850 PS	1. Bump
Other Charges		Plug	/ / /	PSI. WAIT	4 mIN	utes. Rel	ease Pressure
Total Charges	777.50		Held. St.	1 -	in @ o	PS1. 6000	
	777.00		+1mes	while Cem	enting.	Job Com	olete 4:20 ans
1/	1100	Kig di	owN				
Comenter SEVI	N M/ Coy						
Helper MIKE	Justin	District	LREKA	•	Sta	a Ks	
The above job was o	done under supervison of the owner		hose signature appr	ears below.	. Dec	· · · · · · · · · · · · · · · · · · ·	
		TA	ANK YOU	X -	- X)OW	Ole-	Agent of contractor or operator
					<u> 1</u>	<u> </u>	
Ouestin Contra			ales Ticket for I	Materials Only		· · · · · · · · · · · · · · · · · · ·	
Quantity Sacks			AND TYPE			PRICE	TOTAL
200 SKS	Thick Set Ce	ment				10.75	2150.00
800 *	KOL-SEAL					30	240.00
	 			·			
	0 011						
5 Hes		RUCK				65,00	325.00
	Load City WA	the	25	CEIVED		20.00	20.00
			- KI	CEIVED PR 2 1 2009 CWICHITA			
				PR 2 1 Mins			
				ATHOU			
2	52 Cement 6	Rackete	V(:CAIPUII.	·	106.00	212.00
<u>ス</u> 5		LALIZEES	177	-		28.00	212.00 140.00
1	5\$ AFU FIOR		<u>·</u>			160.00	160.00
	5\$ Top Rubbes	Plua				40.00	40.00
-		7	··· -· ···	200 SKs Handlin	ng & Dumping	• 50	100.00
Plugs			(7.4 Tows Mileage		·80	376.00
				Sub To			4,540.50
	Delivered by# 22 Truck No.			Discour			
	Delivered from EUREKA			Sales T	ax	6.3%	286.05
		Levi ME		Total			<u> 286.05</u> 4826.55