

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
September 1999  
Form must be Typed

Operator: License # 33209  
 Name: Penn Virginia Oil & Gas Corporation  
 Address: 2550 E. Stone Dr., Suite 110  
 City/State/Zip: Kingsport, TN 37660  
 Purchaser:  
 Operator Contact Person: Richard Waddell, Operations Manager  
 Phone: 423-723-0281  
 Contractor: Name: Gulick Drilling Co., Inc. **RECEIVED**  
 License: 32854  
 Wellsite Geologist: **JAN 15 2004**  
 Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     Temp. Abd.  
 Gas     ENH     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:  
 Operator:  
 Well Name:  
 Original Comp Date    Original Total Depth  
 Deepening     Re-Perf.     Conv. To Enhr./SWD  
 Plug Back     Plug Back Total Dept  
 Commingle    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_  

12/08/2003	12/22/2003	12/30/2003
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 1501720853 **0600**  
 County: Chase  
 NE NW NW Sec. 26 Twp. 21S R: 6E  East  West  
 \_\_\_\_\_ 300 feet from  N /  S Line of Section  
 \_\_\_\_\_ 990 feet from  E /  W Line of Section

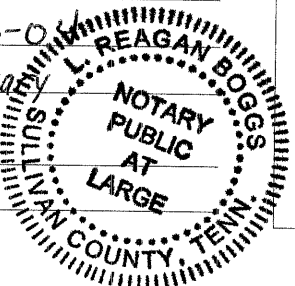
Footages Calculated from Nearest Outside Section Corner:  
 (Circle one) NE SE **NW** SW  
 Lease Name: MERCER 26-4    Well #: 4  
 Field Name:  
 Producing Formation: SWD Well  
 Elevation: 1366    Kelly Bushing: 1381  
 Total Depth: 4625    Plug Back Total Depth 4625  
 Amount of Surface Pipe Set and Cemented at 509 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from \_\_\_\_\_  
 from depth to **ACT I WITHIN 2-12-07** sx cmt.

**Drilling Fluid Management Plan**  
*(Data must be collected from the reserve pit)*  
 Chloride content \_\_\_\_\_ ppm.    Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used Will use this SWD well upon approval to inject  
 \_\_\_\_\_  
 Location of fluid disposal if hauled offsite:  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_    License No: 33209  
 Quarter: \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_    Docket No.: \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: **Richard Waddell**  
 Title Operations Manager    Date: 01-13-04  
 Subscribed and sworn before me this 13th day of January 2004.  
 Notary Public: **L. Reagan Boggs**  
 Date Commission Expires: 2-26-2006



**KCC Office Use ONLY**

Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution



Side Two

Operator Name: Penn Virginia Oil & Gas Corporation Lease Name: MERCER 26-4 Well #: 4  
 Sec. 26 Twp. 21S R. 6E  East  West County: Chase

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent To Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pawnee	2688 1307
Electric Logs Run (Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fort Scott LS	2746 1365
List All E. Logs Run: Photo Density, Comp Neutron, GR, CAL, Induction		Rowe Coal	3222 1841
		Riverton Coal	3256 1875
		Basal Pennsylvania	3310 1929
		Mississippian LIS	3450 2069
		Kinderhook Shale	3801 2420
		Hunton Fm	3918 2537
		Viola LS	3954 2573
		Simpson Fm	4027 2646
		Arbuckle Fm	4095 2714

**RECEIVED**  
**JAN 15 2004**  
**KCC WICHITA**

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D)	Weight Lbs./Ft	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	9 5/8"	36	509	Standard	225	2% gel, 3% CaCl <sub>2</sub> , 1/4lb Flo-Cel
Intermediate	8 3/4"	7"	23	4130	Cl A	750	60/40 POZ, 6% Gel, 2% CaCl <sub>2</sub> , 1/4lb Flo-Cel / 4% gel, 2% CaCl <sub>2</sub> , 1/4lb Flo-Cel
Production	6 1/4"	4 1/2"	10.5	4625			

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size 4 1/2"	Set At 4107	Packer At 4101	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of first, Resumerd Production, SWD or Enhr. 01/23/2004	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
----------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------

Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
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Disposition of Gas <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If Vented, Submit ACO-18)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval _____
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## BLUE STAR ACID SERVICE, INC.

PO Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

# No 5228

Date: <b>12-10-03</b>		Customer Order No:	Sec: <b>26</b>	Twp: <b>21S</b>	Range: <b>6E</b>	Truck Called Out 12-9: <b>5:30 PM</b>	On Location 12-9: <b>8:15 AM</b>	Job Began: <b>1:45 PM</b>	Job Completed: <b>2:00 PM</b>
Owner: <b>PENN-VIRGINIA OIL &amp; GAS CORP.</b>			Contractor: <b>Gulick Drilling Co.</b>			Charge To: <b>PENN-VIRGINIA OIL &amp; GAS CORP.</b>			
Mailing Address: <b>2550 E. Stone Dr. Ste 110</b>			City: <b>Kingsport</b>			State: <b>TN 37660</b>			
Well No & Form: <b>Mercer # 26-4-4</b>		SWD	Place: <b>Chase</b>		County: <b>AS</b>	State: <b>AS</b>			
Depth of Well: <b>514'</b>	Depth of Job: <b>515'</b>	Casing	(New) Size: <b>9 5/8"</b>	Weight: <b>36 #</b>	Size of Hole Amt. and Kind of Cement: <b>225 Sks</b>	Cement Left in casing by: <b>(Request) 40' feet</b>		Necessity: <b>40' feet</b>	
Kind of Job: <b>SURFACE</b>			(Used)			Drillpipe: _____	(Rotary) Cable: _____		Truck No: <b>221</b>

Price Reference No. <b># 1</b>
Price of Job <b>425.00</b>
Second Stages _____
Mileage <b>50.7</b> <b>113.50</b>
Other Charges _____
Total Charges <b>537.50</b>

Remarks: **Safety Meeting: Rig up to 9 5/8" casing. Break circulation with 10 Bbl fresh water. Mixed 225 Sks Regular Cement with 3% Cacl<sub>2</sub>, 2% Gel, 1/4" floccle per/sk @ 15.2# per/gal. (yield 1.35). Shut down. Release plug. Displace with 37.0 Bbl fresh water. Shut casing in. Good cement returns to surface = 12 Bbl slurry = 50 Sks. Job complete. Rig down.**

Cementor: **Kevin Miley**  
 Helper: **Mike, Tray**  
 District: **EUREKA** State: **KS**  
 The above job 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
225 Sks	Regular Class 'A' Cement	7.75	1743.75
634 #	Cacl <sub>2</sub> 3%	.35	222.07
423 #	Gel 2%	9.50	40.18
56 #	Floccle 1/4" per/sk	1.00	56.00
2	9 5/8 Cement Basket	220.00	440.00
2	9 5/8 x 12 1/4 Centralizers	60.00	120.00
1	9 5/8 Top Rubber Plug	127.00	127.00
	225 Sks Handling & Dumping	.50	112.50
	10.57 Tons Mileage 50	.80	422.80
	Sub Total		3821.80
	Discount		
	Delivered from <b>EUREKA</b>		
	Sales Tax <b>6.3%</b>		240.77
	Signature of operator: <b>Kevin Miley</b>		Total: <b>4062.57</b>

RECEIVED

ORIGINAL

JAN 15 2004

JAN-05-2004 03:19 AM LIVINGSTON ONSITE 432 354 2204 P.02

KCC WICHITA

BLUE STAR ACID SERVICE, INC.

PO Box 103 Eureka, Kansas 67045

Cementing Ticket and Invoice Number

No. 5234

Date	Customer Order No	Sect	Twp.	Range	Truck Called Out	On Location	Job Began	Job Completed
12-19-03		36	215	6E	4:00 AM	6:00 AM	11:00 AM	12:40 AM
Owner	Contractor				Charge To			
Penn-Virginia Oil & Gas Corp.	Gulick Drilling Co.				Penn-Virginia Oil & Gas Corp.			
Mailing Address	City				State			
2550 E. Stone Dr. Ste 110	Kingsport				TN. 37660			
Well No. & Form	Place	County			State			
Mercer #26-4-4 50D		CHASE			KS			
Depth of Well	Depth of Job	(New) Size	Weight	Size of Hole Amt. and Kind of Cement	Cement Left in casing by	Request Necessity		
4130	4130	7"	23	8 3/4" 750 SKS		45' feet		
Kind of Job	Drillpipe				(Rotary) Cable			
LONGSTAIR					Truck No #21 #25			

Price Reference No.	# 1
#1 Pump Truck	665.00
#2 Pump Truck	600.00
Mileage	502 112.50
Other Charges	
Total Charges	1377.50

Remarks: Safety Meeting: Rig up to 7" casing. Pump 5 Bbl fresh water. Mixed 550 SKS 60/40 Pozmix Cement with 6% Gel, 2% CACL2, 1/4" Floccle per/sk @ 12" per/gal. yield 1.80. Tail in with 170 SKS Regular Cement 4% Gel, 2% CACL2 1/4" Floccle @ 13" per/gal. 30 SKS Regular Cement with 4% Gel, 2% CACL2, 1/4" Floccle @ 14.3" per/gal. Shut down. Release Plug. Displace with 161 Bbl fresh water. Final Pumping Pressure 1200 PSI @ 10PPM. Pump Plug to 1400 PSI. Wait 2 minutes. Release Pressure. Floats Held. Job Complete @ 12:40 AM. Note: First 120 Bbl of Displacement used 2 Pump Trucks.

Cemented by: Kevin McCoy - Brad Butler  
 Helper: Troy Rick Stone, Justin Jim Jason  
 District: EUREKA State: KS  
 The above job 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
550 SKS	60/40 Pozmix Cement	6.50	3575.00
2838 #	Gel 6%	9.50	26961
946 #	CACL2 2%	.35	331.10
138 #	Floccle 1/4" per/sk	1.00	138.00
200 SKS	Regular Class "A" Cement	2.75	1550.00
752 #	Gel 4%	9.50	7144
375 #	CACL2 2%	.35	131.25
50 #	Floccle 1/4" per/sk	1.00	50.00
7 HRS	3 EA. 80 OBL VAL TRUCKS #13 #14 #24	65.00	1365.00
5	7" Cement Baskets	163.00	810.00
5	7" Centralizers	33.00	160.00
1	7" Sure Seal Float Collar	314.00	314.00
1	7" Sure Seal Float Shoe	253.00	253.00
1	7" Top Rubber Plug	60.00	60.00
Plugs	750 SKS Handling & Dumping	.50	375.00
	33.05 TONS Mileage 50	.80	1322.00
	Delivered by #3 #10 #16 #22		12,152.90
	Delivered from EUREKA		
	Signature of operator Kevin McCoy	Sales Tax 6.3%	765.63
		Total	13,918.53

**BLUE STAR  
ACID SERVICE, INC.**

PO Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

**ORIGINAL**  
NO. 0044

Date <b>12-21-03</b>	Customer Order No.	Secd <b>26</b>	Twp <b>21s</b>	Range <b>6E</b>	Truck Called Out <b>4:30am</b>	On Location <b>7:30am</b>	Job Began <b>10:00am</b>	Job Completed <b>4:30pm</b>
Owner <b>Parent: Virginia Oil &amp; Gas Corp</b>	Contractor <b>Galick Drilling Co.</b>			Charge To <b>Parent: Virginia Oil &amp; Gas Corp</b>		Mailing Address <b>2550 E. State Dr. Ste 110</b>		
City <b>Kingsport</b>			State <b>TN</b>		Well No. & Form <b>Mercer #26-4-4</b>		Place <b>Chase</b>	
Depth of Well <b>4625'</b>		Depth of Job <b>4625'</b>		Size of Hole Amt. and Kind of Cement <b>6 1/2"</b>		Cement Left in casing by		Request Necessity
Kind of Job <b>Acid Job</b>				Drillpipe		Rotary		Truck No. <b># 19</b>
				Tubing		Cable		

Price Reference No.	
Price of Job	<b>425.00</b>
Second Stage	<b>400.00</b>
Mileage	<b>507 112.50</b>
Other Charges	
Total Charges	<b>937.50</b>

Remarks: **Safety Meeting: Rig up to 2" casing (4:30), Pumped 1000gal 15% FF Acid, Pumped 270 Bbls fresh water when we caught fluid during flush - Pump rate at 5 1/2 BPM with 200 PSI when acid hit open hole pressure dropped off to 100 PSI at 6 1/2 BPM we had 170 Bbls fresh water pumped when we switched to Packer Fluid. Pumped 50 Bbls Packer Fluid at 7 BPM. TSD well has VAC. Well taking water at 1.2 BPM. Job complete - Teardown at 11:00am. Run lined 4 1/2" casing in hole with Packer set at 4107' Rig up to Annulus, Pumped Packer Fluid loaded hole. Pressure to 500 PSI. M.I.T. well at 500 PSI for 30 min.**

Cementor **Brad Butler**  
Helper **Steve Mead**

District **Eureka** State **Kansas**

The above job was done under supervision of the owner operator, or his agent whose signature appears below

*[Signature]*  
Agent of contractor or operator

**Thank you**

Sales Ticket for Materials Only

Quantity Sacks	BRAND AND TYPE	PRICE	TOTAL
1000	GAH 15% FF Acid	75	750.00
3	GAH Inhibitor	20.00	60.00
2	GAH Surfactant	15.00	30.00
5	GAH Monomulsifier Agent	20.00	100.00
10	GAH Iron Sequestering Agent	20.00	200.00
5	GAH Packer Fluid	15.00	75.00
<b>RECEIVED</b>			
<b>JAN 15 2004</b>			
<b>KCG WICHITA</b>			
Plugs	Handling & Dumping		
	Mileage		
	Sub Total		<b>2152.50</b>
Delivered by Truck No. <b>#19</b>	Discount		
Delivered from <b>Eureka</b>	Sales Tax <b>6.3%</b>		<b>135.60</b>
Signature of operator <b>Brad Butler</b>	Total		<b>2288.10</b>

ORIGINAL

JAN-06-2004 03:19 AM LIVINGSTON ONSITE

482 354 2204 P.01

26-4-4 SWD.

SPUD - 12-8-03

API - 15017-20857

300 FWL 990 FWL

SEC 26-T21S-R6E

12 1/4 HOLE w/ 509' 9 5/8 36 #. 225 SKS "A" 1.35 @ 15.2  
CIRC. 50 SKS. DOWN 2:00 AM - 12-10-03

8 3/4" HOLE TO 4130, TOP OF ARB @ 4094, RAN 7" 23 LB  
@ 4130. CMT w/ 550 SKS 60/40 POZ @ 1.8 @ 12 PPG. TAILED  
w/ 200 SKS "A" @ 1.95 @ 12.9 to 14.3 PPG. DOWN @ 1230 PM  
12-19-03. CIRC. 65 SKS CMT.

7" OPEN HOLE TO 4625', ACIDIZED w/ 1000 BALS 15% NEFL.

4 1/2" 10.50 JST 8 RD SEC. PACKER @ 4101. SET w/ 10,000 ↓  
ARROW 7" x 4 1/2" FULL DRIFT ID.

