

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form must be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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.

License: 32854

Wellsite Geologist:

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 -00-00

County: Chase

NW/4 NE/4 Sec. 26 Twp. 21S R: 6E  East  West

300 300 feet from  N /  S Line of Section

990 990 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 \_\_\_\_\_ w/ \_\_\_\_\_ 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

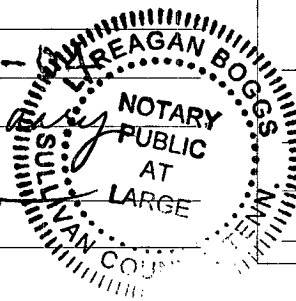
Title Operations Manager Date: 1-23-04

Subscribed and sworn before me this 13th day of January

2004.

Notary Public: [Signature]

Date Commission Expires: 12-26-2006



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  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent To Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Logs Run  Yes  No  
 (Submit Copy)  
 List All E. Logs Run: Photo Density, Comp Neutron, GR, CAL, Induction

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Pawnee	2688	1307
Fort Scott LS	2746	1365
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

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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% CaCl2, 1/4lb Flo-Cel
Intermediate	8 3/4"	7"	23	4130	Cl A	750	60/40 POZ, 6% Gel, 2% CaCl2, 1/4lb Flo-Cel / 4% gel, 2% CaCl2, 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      Set At      Packer At      Liner Run  
 4 1/2"      4107      4101       Yes  No

Date of first, Resumerd Production, SWD or Enhr.      Producing Method  
 01/23/2004       Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbbs	Gas Mcf	Water Bbbs	Gas-Oil Ratio	Gravity

Disposition of Gas      METHOD OF COMPLETION      Production Interval  
 Vented    Sold    Used on Lease       Open Hole    Perf.    Dually Comp.    Commingled  
 (If Vented, Submit ACO-18)       Other (Specify) \_\_\_\_\_

# BLUE STAR ACID SERVICE, INC.

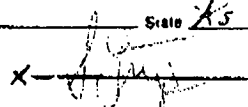
PO Box 103  
Eureka, Kansas 67045

Contracting Ticket  
and Invoice Number **N<sup>o</sup> 5228**

Date	Customer Order No.	Sec.	Twp	Range	Truck Called Out 12-9	On Location 12-9	Job Began	Job Completed
12-10-03		26	21S	6E	5:30 PM	8:15 PM	1:25 AM	2:00 AM
Owner	Contractor			Charge To				
PENN-VIRGINIA OIL & GAS CORP.	Gulick Drilling Co.			PENN-VIRGINIA OIL & GAS CORP.				
Mailing Address	City			State				
3550 E. Stone Dr. Ste 110	Kingsport			TN 37660				
Well No & Form	SWP	Place	County		State			
Merced # 26-4-4			Chase		KS			
Depth of Well	Depth of Job	Casing	(New) Size	Size of Hole	Cement Left	Request		
514	515		9 5/8	12 1/4	225 Sks	Necessity	40' feet	
Kind of Job			Weight	36 #				
SURFACE								
			Drillpipe	(Rotary)				
			Tubing	Cable		Truck No. #21		

Price Reference No.	# 1
Price of Job	425.00
Second Stage	
Mileage	50 = 113.50
Other Charges	
Total Charges	537.50

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 McCoy  
 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
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<b>KCC WICHITA</b>			
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
	10.51 Tons Mileage 50	.80	422.80
Sub Total			3821.80
Discount			
Delivered by # 22 Truck No.			
Delivered from EUREKA		Sales Tax 6.3%	240.77
Signature of operator <u>Kevin McCoy</u>		Total	4062.57

# BLUE STAR ACID SERVICE, INC.

PO Box 103  
Eureka, Kansas 67045

Cementing Ticket  
and Invoice Number

No. **5234**

Date <b>12-19-03</b>	Customer Order No.	Sec1 <b>36</b>	Twp. <b>21S</b>	Range <b>6E</b>	Truck Called Out <b>4:00 AM</b>	On Location <b>6:00 AM</b>	Job Began <b>11:00 AM</b>	Job Completed <b>12:40 AM</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 #26-4-4 500</b>		Place <b>Chase</b>			County <b>KS</b>			
Depth of Well <b>4130</b>	Depth of Job <b>4130</b>	Class <b>(New)</b>	Size <b>7"</b>	Weight <b>23</b>	Size of Hole Amt. and Kind of Cement <b>8 3/4" 750 SKS</b>	Cement Left in casing by	Request (Necessity)	<b>45</b> feet
Kind of Job <b>LONGSTRING</b>					Drillpipe	Tubing	(Rotary Cable)	Truck No. <b>#21 #25</b>

Price Reference No.	<b># 1</b>
#1 Pump Truck Price of Job	<b>665.00</b>
#2 Pump Truck Second Stage	<b>600.00</b>
Mileage	<b>507 112.50</b>
Other Charges	
Total Charges	<b>1377.50</b>

Remarks **Safety Meeting; Rig up to 7" casing. Pump 5 Bbl fresh water. Mixed 550 SKS 60/40 Pozmix Cement with 6% Gel, 2% Cacta, 1/4" Floccle per/sk @ 12" per/gal. yield 1.80. Tail in with 170 SKS Regular Cement 4% Gel, 2% Cacta, 1/4" Floccle @ 13" per/gal. 30 SKS Regular Cement with 4% Gel, 2% Cacta, 1/4" Floccle @ 14.3" per/gal. Shut Down. Release Plug. Displace with 161 Bbl fresh water. Final Pumping Pressure 1200 PSI @ 18PM. Pump Plug to 1400 PSI. Wait 2 minutes. Release Pressure. Floats Held. Job Complete @ 12:40 AM. Note: First 122 Bbl of Displacement**

Cement **Kevin McCoy - Brad Butler** Used 2 Pump Trucks.  
 Help **Troy Rick, Steve, 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** *[Signature]* 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 "	Cacta 2%	.35	331.10
138 "	Floccle 1/4" per/sk	1.00	138.00
200 SKS	Regular Class "A" Cement	7.75	1550.00
752 "	Gel 4%	9.50	7144
375 "	Cacta 2%	.35	131.25
50 "	Floccle 1/4" per/sk	1.00	50.00
7 HRS	3 EA. 80 BBL 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
	750 SKS Handling & Dumping	.50	375.00
	33.05 TONS Mileage 50	.80	1322.00
	Sub Total		12,152.90
	Discount		
	Sales Tax 6.3%		765.63
	Total		12,918.53

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Delivered by #3 #10 #16 #22  
 Delivered from **EUREKA**  
 Signature of operator *[Signature]*

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KCC WICHITA

26-4-4 SWD.

SWD - 12-8-03

API - 15017-20857

300 FNL 990 FNL

SEC 26-T215-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 @ 12:30 PM  
12-19-03. CIRC. 65 SKS CMT.

7" OPEN HOLE to 4625'. ACIDIZED w/ 1000 GALS 15% NEFL.

4 1/2" 10.50 JST 8 RD SEC. PACKER @ 4101. SET w/ 18,000 ↓  
ARROW 7" x 4 1/2" FULL DRIFT ID.

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KCC WICHITA

PENN-VIRGINIA OIL & GAS  
DRILLING REPORT

DATE; 12-20-03

WELL; MERCER 26-4-4 SWD

STATE; KANSAS COUNTY; CHASE FIELD;

ELEVATION; 1374' LOCATION; 300' FNL, 990' FWL SEC; 26-T21S-R6E

API #15-017-20853 SUPERVISOR; STEVE LIVINGSTON

PROPOSED TD; +4500' RKB= 8.5' 9 5/8" @ 509' 7" @ 4130

REPORT 12.

NOTE; THIS DISPOSAL WELL WILL TD IN THE ARBUCKLE. (TOP AT 4094' BY LOG) WE SET 7" THIRTY SIX FEET INTO IT. CHANGED OUT DRILL STRING WITH SLIMHOLE STRING. WE WILL DRILL +480' OF 6 1/4" OPEN HOLE. THE 4 1/2" TUBING AND PACKER WILL BE RUN WITH THE DRILLING RIG.

DEPTH AT REPORT TIME; 4177'. DRILLING AT REPORT TIME AT 1 MIN/ FT. MUD WEIGHT IS 8.4 PPG.

RAN IN WITH 7" FLOAT SHOE, FLOAT JOINT, FLOAT COLLAR, AND TOTAL OF 93 JOINTS OF 7" 23 J55 8 RD LTC. HAVE 6 JOINTS OUT. WASHED DOWN 2' AND SET AT 4130'. RAN CEMENT BASKETS EVERY 500'. RAN TOTAL OF 5 CENTRALIZERS. RAN 6 CENTRALIZERS.

CIRCULATED FOR TWO HOURS. RIGGED UP BLUE STAR ACID CREW. PUMPED 550 SKS 60/40 POZ WITH 6% GEL, 2% CACL2, 1/4 LB FLO-CEL AT 1.8 FT3/ BL @ 12 PPG. TAILED WITH 200 SKS OF "A" WITH 4% GEL, 2% CACL2, 1/4 LB OF FLO-CEL @ 1.95 @ 12.9 PPG. LAST 10 BARRELS WAS PUMPED AT 14.3 PPG. (USED CALIPER OF 1100 FT3 + 25% EXCESS) DISPLACED AND BUMPED PLUG AT 12:30 PM, 12-19-03. LATE PRESSURE WAS 1200 PSI. BUMPED PLUG TO 1500 PSI. CIRCULATED 20 BARRELS (65 SACKS) OF CEMENT.

WOC FOR 12 HOURS.

RAN IN WITH 6 1/4" BIT, SIXTEEN 4 3/4" COLLARS WITH 3 1/2" IF CONNECTIONS, 3 1/2" 13.30 LB DRILL PIPE WITH IF CONNECTIONS.

DRILLED OUT FLOAT EQUIPMENT. DRILLED 6 1/4" HOLE FROM 4130' TO 4177' IN 2 HOURS. 47 1/2 HOURS= 24 FT/ HR. DRILLING WITH CLEAR WATER WITH POLYMER SWEEPS.

RENTED 3 1/2" IF DRILL PIPE FOR \$3800 FOR ENTIRE WELL, WITH NO INSPECTION CHARGES. RENTED SIXTEEN 4 3/4" COLLARS WITH 3 1/2" IF CONNECTIONS FOR 100 EACH PLUS 25/ DAY. RENTAL THRU SUNRISE SUPPLY OUT OF ENID, OK.

**DAILY COST;**

**INTANGIBLE**

RIG 24 HRS AT 200/ HR	4800
SUPERVISION	700
BLUE STAR	12000
RENTALS (PIPE 3800, COLLARS; 3000)	6800
FUD MUD (DRILLING MUD)	400
<b>SUB TOTAL</b>	<b>24700</b>

**TANGIBLES**

7" FLOAT EQUIPMENT (BLUE STAR)	2500
7" 23 LB J55 8RD LTC (KC)	29000
<b>SUB TOTAL</b>	<b>31500</b>
<b>TOTAL DAILY;</b>	<b>56200</b>
<b>CUMM TOTAL;</b>	<b>164500</b>

AFE COST; 323400

DRYHOLE COST; 168600

