

**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

ORIGINAL

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: None
 Designate Type of Completion:

New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENH SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows: **RECEIVED**
KANSAS CORPORATION COMMISSION

Operator: _____
 Well Name: _____ **NOV 20 2003**
 Original Comp Date _____ Original Total Depth _____
 Deepening Re-Perf. **CONSERVATION DIVISION** Enhr./SWD
 Plug Back Plug Back Total Dept
 Commingle Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

06/02/2003	06/06/2003	10/18/2003
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 1507323951-00-00
 County: Greenwood
 NE ~~44~~ SE ~~44~~ Sec. 23 Twp. 23S R: 09 East West
 _____ 1980' feet from N / S Line of Section
 _____ 660' feet from E / W Line of Section

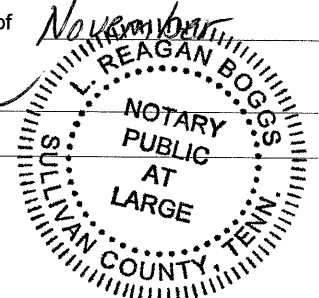
Footages Calculated from Nearest Outside Section Corner:
 (Circle one) NE **SE** NW SW
 Lease Name: DUNLAP 23-9 Well #: 3
 Field Name: _____
 Producing Formation: Pennsylvanian Coals
 Elevation: 1341 Kelly Bushing: 1349
 Total Depth: 2575 Plug Back Total Depth 2526
 Amount of Surface Pipe Set and Cemented at 209 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)* **Alt 1 CR 11-21-03**
 Chloride content 350 ppm. Fluid volume 400 bbls
 Dewatering method used Will dispose of drilling fluid in Teter 23-11-2
(API No. 15-073-23961).
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No: _____
 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: 11-13-03
 Subscribed and sworn before me this 13th day of November
 2003.
 Notary Public: [Signature]
 Date Commission Expires: 2-26-2006



KCC Office Use ONLY

No Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Yes Wireline Log Received
 No Geologist Report Received
 _____ UIC Distribution

Operator Name: Penn Virginia Oil & Gas Corporation Lease Name: DUNLAP 23-9 Well #: 3
Sec. 23 Twp. 23S R 09 [X] East [] West County: Greenwood API# 15-073-23951-00-00

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 [X] No
Samples Sent To Geological Survey [] Yes [X] No
Cores Taken [] Yes [X] No
Electric Logs Run [X] Yes [] No
List All E. Logs Run: (Photo Density, Comp Neutron, GR, CAL) Induction

Table with 3 columns: Name, Top, Datum. Rows include Lansing (1379, -26), Base Kansas City (1832, -479), Cherokee (2110, -757), Mississippian (2450, -1097).

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KANSAS CORPORATION COMMISSION
NOV 20 2003

CASING RECORD Table with 8 columns: 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. Includes Surface, Intermediate, and Production rows.

ADDITIONAL CEMENTING / SQUEEZE RECORD Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives.

PERFORATION RECORD - Bridge Plugs Set/Type Table with 4 columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth.

TUBING RECORD Section with fields for Size, Set At, Packer At, and Liner Run [] Yes [X] No.

Date of first, Resumerd Production, SWD or Enhr. Producing Method [] Flowing [X] Pumping [] Gas Lift [] Other (Explain)

Estimated Production Per 24 Hours Table with 5 columns: Oil Bbls, Gas Mcf, Water Bbls, Gas-Oil Ratio, Gravity.

Disposition of Gas and METHOD OF COMPLETION Section with checkboxes for Vented, Sold, Used on Lease, Open Hole, Perf., Dually Comp., Commingled, and Other (Specify).

API # 15-073-23957-00-00
BLUE STAP
ACID SERVICE, INC.

PO Box 103
 Eureka, Kansas 67045

ORIGINAL
 Certifying Ticket
 and Invoice Number **N: 4571**

Date 6-3-03	Customer Order No.	Secl 23	Twp. 23	Range 9	Truck Called Out 6:00 AM	On Location 7:40 AM	Job Began 8:30 AM	Job Completed 9:00 AM
Owner Penn Virginia Oil & Gas Corp		Contractor Gulick Drilg.			Charge To Penn Virginia Oil & Gas Corp			
Mailing Address 2550 E Stone Dr Suite 110		City Kingsport			State TN 37660			
Well No. & Form Dunlap 23-9-3		Place Greenwood		County KANSAS		State		
Depth of Well 212	Depth of Job 211	Casing <input checked="" type="radio"/> New <input type="radio"/> Used	Size 8 5/8	Weight 23 #	Size of Hole 12 1/4	Amt. and Kind of Cement 140 Reg	Cement Left in casing by	Request Necessity 25 feet
Kind of Job SURFACE PIPE					Drillpipe	Rotary Tubing (Cable) Truck No. # 12		

Price Reference No. # 1
Price of Job 425.00
Second Stage
Mileage 15 33.75
Other Charges
Total Charges 458.75

Remarks Safety meeting, Rig up to 8 5/8 casing
BREAK circulation w/ 15 Bbl fresh water. Mix 140
SK's Regular cement w/ 3% caciz 1/4 Floccle
Displace wooden Plug w/ 11.5 Bbl water. GOOD
cement. Returns to surface. (10.5 Bbl) close ✓
CASING IN. JOB complete, Rig Down.
 1.18 @ 15.2 PPG

Cementor Russell McLoay

Helper Troy Monti District EUREKA State KANSAS

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
140	SK's Regular CLASS A cement	7.75	1085.00
395	1b's caciz	.35	138.25
35	1b's Floccle 1/4 lb per/sk	1.00	35.00
RECEIVED KANSAS CORPORATION COMMISSION NOV 20 2003 CONSERVATION DIVISION WICHITA, KS			
1	8 5/8 wooden Plug	40.00	40.00
Plugs		140 SK Handling & Dumping	.50 70.00
		6.58 Ton Mileage 15	.80 78.96
		Sub Total	1905.96
		Discount	
Delivered from <u>Eureka</u>		Sales Tax	16.3 % 120.08
Signature of operator <u>Russell McLoay</u>		Total	2026.04

API# 15-073-23951-00-00

**BLUE STAR
ACID SERVICE, INC.**

PO Box 103
Eureka, Kansas 67045

Cementing Ticket
and Invoice Number

ORIGINAL
No. **4582**

Date 6-7-03	Customer Order No.	Sec. 23	Twp. 23	Range 9	Truck Called Out ←	On Location 10:30am	Job Began 2:00am	Job Completed 3:00am
Owner Penn-Virginia Oil & Gas	Contractor Gulick Dtg. Co. Inc.		Charge To Penn-Virginia Oil & Gas			City Greenwood		
Mailing Address 2550 E. Stone Drive #110	City Kingsport		State Tenn. 37660			State Kansas		
Well No. & Form Dunkap 23-9-3	Depth of Well 2525'	Depth of Job 2527'	Change (New)	Size 5 1/2"	Weight 15.5	Size of Hole Ann. and Kind of Cement 7 1/2" 140SKS	Cement Left in casing by	Request Necessity 0 feet
Kind of Job Long String			Drillpipe (Navy) 1140			Cable Truck No. #25		

Price Reference No.	#1
Price of Job	665.00
Second Stage	
Mileage	202 45.00
Other Charges	
Total Charges	710.00

Remarks **Safety Meeting: Rig up to 5 1/2" casing, Break circulation with 20 Bbl fresh water. Mixed 140 SKS Thick set cement w/ 4lb. 1 1/2% of KOL-SEAL at 13' 11" 1 1/2" GAN. Shut down, washout pump & lines. Release Plug - Displace Plug with 60 Bbl water at 5.5 BPM (Last 4 Bbl. Disp. washed Downrod etc to 1800'). Final pumping at 500 PSI - Pumped Plug to 800 PSI wait 3 minutes - Release Pressure - Float Held - close casing in with 0 PSI**

Note: We had good circulation during cementing procedure.
Job complete - Tear down

Cementer **Broad Butler**
Helper **Rick Tray - Russ**
District **Eureka**
State **Kansas**

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	BRAND AND TYPE	PRICE	TOTAL
140	SKS Thick Set cement	10.25	1505.00
550	1lb. KOL-SEAL 4" 1 1/2"	.30	165.00
4	Hrs. 80 Bbl VAC Truck	60.00	240.00
1	Load City water	20.00	20.00
RECEIVED KANSAS CORPORATION COMMISSION NOV 20 2003 CONSERVATION DIVISION WICHITA, KS			
1	5 1/2" APP Float shoe	160.00	160.00
2	5 1/2" Cement Basket	106.00	212.00
6	5 1/2" Centralizers	28.00	168.00
1	5 1/2" Top Rubber Plug	40.00	40.00
Plugs			
	140 SKS Handling & Dumping	.50	70.00
	77 Tr. Mileage 20	.80	123.20
	Sub Total		3413.20
	Discount		
	Sales Tax	6.32	215.03
	Total		3628.23

Delivered by Truck No. **#16**
Delivered from **Eureka**
Signature of operator **Broad Butler**