APT NO. <u>45 - 105 - 21204</u>
WELL NAME: <u>8830</u>
DATE <u>May 2, 1989</u>

Virginia Oil and Gas Inspector
P. O. Box 1416
Abingdon, VA 24210
703 628-0115

LE-164

#### REPORT OF COMPLETION OF WELL WORK

Pursuant completio	to Regulation 4.06 of the Regulations under the Virginia Dil and Gas Act, the understance well operator reports not the type(s) of well work specified below on the referenced well in <u>Rose Hill</u> District Lee <u>County, Virginia on 7th</u> day, <u>March</u> sonth, 19 89.
	: Oil/ Gas _X / Enhanced Recovery/ Waste Disposal/ If Gas-Production _X / Underground Storage/ Exempt by Code Section 45.1-300.8.1. from general Oil and Gas Conservation Law yes/ no _X / : Drill _X / Deepen/ Redrill/ Stimulate _X / Plug Off Old Formation/ Ferforate New Formation _X / Flug _X / Replug/ Other physical change in well (specify)
The well H	work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.
	CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332
	Ninety days from the filing of this report
	CR
<u>X</u>	Two years from March 7, 1989, the date on which the referenced well was <u>completed</u> , the well being an exploratory well as defined in Code of Virginia, Section 45.1-288.21.
AFFLICANT.	Penn Virginia Resources Corporation
8Y	William M. Ryan William M. Ryan
	Senior Geologist
ADDRESS	P.O. Box 386, Duffield, VA 24244
TELEPHOLE	(703) 431–2831



# COMPLETION REPORT

WELL TYFE: Oil ( ) Gas Production	(X) Gas-Undergro	und Storage ( ) Enhanced Rec	overy ( ) Waste Disposal (
LOCATION			
COUNTY Lee		DISTRICT Rose Hill	
SURFACE ELEVATION 1458.99'		CUADRANGLE Rose Hill	
LATITUDE 14,900 'S 36°	40.	LONGITUDE 8,075 W 8	33°20''
CRILLING DATA			
DATE DRILLING COMMENCED 1/6/ DATE DRILLING COMPLETED 1/19 DATE WELL COMPLETED 3/6 TOTAL DEPTH OF COMPLETED WELL 3	/89 /89	DRILLING CONTRACTOR Ray R ADDRESS P.O. BOX 909 TELEPHONE MARKER (304) RIG TYPE X ROTARY	, Poca, WV 25159 755-8383
GEOLOGICAL DATA			
FRESH NATER AT (1) None FEET SALT WATER AT (1) None FEET	GPM: (2)	FEETFEET	6PM 6PM
CCAL SEARS: NAME TOP	BOTTOM	THICKNESS YES	NO WINED OUT
FORMATION TOP BOTTOM Trenton 1320' 1892'	572'	Slight Show Oil at 1	500 & 1594 Not Tested
STIMULATION RECORD			
70NE (1) Stones River	FORTATION STI	MLATED NITH 4,000 gallo	ons of 28% HCl and
overflushed with 100 bbls. ERFORATED 3004' TO 3096	of treated NO. OF FERF	Vater DRATIONS 50 PERFO	FATION SIZE
ORMATION BROKE DOWN AT 2905 NITIAL SHUT IN PRESSURE 2833	FSIG AVE	rage injected rate 8 10 Minute Shut in Press	DFM UKE
TIMULATION RECORD			
0HE (2)	FCFMATION STIR	REATED WITH	
ERFORATED TO	NO. OF FERFE	KATIONS FERFO	RATION SIZE
erforatedtoto	PSIG AVER	AGE INJECTED RATE	BFH SOLD
NITIAL SHUT IN PRESSURE	FSIG	MINUTE SHUT IN PRESS	PK FSIb
	CFD ROURS TESTE	D ROCK FRESSURE	
0(£ (1) Show 7			
ONE (2)  INAL PRODUCTION IF GAS ZONES ARE COMINGLED	MEFD	HOURS TESTED	PSIG HOURS TEST

CHENT AND TOKING	SIZE	106	FOLLOW	LENGTH	FERFORATIONS FEET TO FEET			OR BRID	
					TEET TO FEET		KIND	2115	SETA
CONDUCTOR	20"	0'	20'	20'					-
CASINO Circulated and Cemented to Surface	,								
NATER PROTECTION (Casing Set According to Section 45.1-334)	10 3/4"	0'	378 <b>'</b>	378					
OAL PROTECTION Casing Set According o Section 45.1-334)	4½"	0'	3264	3264			********		
THER CASING AND ubing Left In Well									
INERS Remaining		The second se							
THER used and not									
s the well underlain by Yes  EMARKS: Shut down, fish	Ко				s, was coal p	rotection :	string 5	et to Re	j Shales
					The state of the s				
		<del></del>		_,		<b>~</b>			
ILLER'S LOB									
mpiled by <u>William</u>	M. Ryan			,, , , , , , , , , , , , , , , , , , ,			*		
ological	General Lithology		olar 1	Depth	Rotton	Thickn	PCE	£.	enarks

ענמס

(ATTACH DEILLER'S LOG IN THIS FORMAT)

AGE	FORMATION	LITHOLOGY	COLOR	TOP	BOTTOM	THICKNESS
Cambrian		Dolomite	Gray	0'	220	220
Silurian	Clinton	Shale	Red & Gray	220	450 <b>*</b>	230'
Silurian	Clinch	Sand	Gray &	450 <b>'</b>	565 <b>'</b>	115'
Silurian	Hagan	Shale	White Gray	565'	620	55'
Ordovician	Sequatchie	Siltstone & Limestone	Gray	620 <b>'</b>	930'	310'
Ordovician	Reedsville	Limestone & Shale	Gray	930'	1320	390'
Ordovician	Trenton	Limestone	Gray	1320	1842	522'
Ordovician	Eggleston	Limestone	Gray	1842	2056'	214
Ordovician	Stones River	Limestone	Gray	2056	3354	1298'
Ordovician	Knox	Dolomite	Gray	3354	3692 <b>'</b>	338'

Samples and Cuttings
Will X Will not be available for examination by a member of the Virginia Division of Mineral Resources  Will X Will not be furnished to the Virginia Division of Mineral Resources upon request  Will Will not X require sacks to be furnished by the Virginia Division of Mineral Resources
Electric Logs and Surveys:
Type of Electric Log(s) Ran: LDT/SNP/GR, Cyberlook, Induction, Audio/Temp
Did log disclose vertical location of a coal seam? Yes No _N/A
Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Section 45.1-333.B.3 of the Virginia Code
Deviation Surveys:
Deviation surveys were were not $\underline{X}$ required under Section 45.1-333.C of the Virginia Code "to the bottom of the lowest published coal seam depth."
Note: If a deviation survey(s) was/were required, the survey results are as follows:
Depth Feet/Degree Deviated Depth Feet/Degree Deviated Depth Feet/Degree Deviated of Survey From True Vertical of Survey From True Vertical of Survey From True Vertical
A continuous survey was was notXrequired, under Section 45.1-333.0 of the Wirginia Code.
Note: If a continuous survey was required, the survey results are attached.
hanges in the Permitted Well Works
The well operator did $\underline{X}$ make any changes(s) in the permitted well work, verbally approved by the inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Dil and Gas Act, for the purpose of insuring successful completion of the well work.
THE: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.
confidentiality Status:
confidentiality status under Section 45.1-332 of the Virginia Codes
he operator requests that information herein and log(s) be kept confidential (after COMPLETION DATE of the well) for a period of
Ninety (90) days  X two (2) years, if the well is exploratory

File	LE-	-164				
API Nusber	45	-	105	-	21204	

# PLUGGING AFFIDAVIT

COUNTY OF			
		, TO-WIT:	
	Larry Vleminckx		
being first	duly sworn, depose and say	that:	
They a	re both experienced in the o	olugging of wells and participated in the plugging work which is the subject	rt of this
	the referenced well.	2-23-12 or more and be received as one breaking men and and and a	
			4
THE PLUGGIM	G MORK WAS FOR THE PURPOSE CO	HECKED BELOW:	
X	At the end of production	n or other use ing or deepening was unsuccessful, so that the well was plugged on the ver	that normical
		signated representative under Code of Virginia Section 45.1-311.C.9.	nat her attack
		he bottom of the hole to feet below the surface, and	continued
	operation by the well op		
٠.		he bottom of the hole to feet below the surface, for	development a
	water well under Section	n 45.1-350.	
	Replug		
T MAINTE A	C CHICCING OF CONTINUES WIT	ICH WAS COMMENCED ON 3/6/89 KAS IN THE KANNER PROVIDED BY LAW	אר מבתידה ני
he raiden u	r recoins an aereasons and	ICH WAS CONNENCED ON THIS IN THE REGION PROVIDED BY DAR	HO LITELACED IN
. X	45.1-342 (Plugging a wel	I that does not penetrate a coal seas)	
		penetrating coal seam without coal protection string provided in Section	45.1-344)
		with coal protection strings installed as provided in Section 45.1-344")	
	45.1-345 (Special pluggi	ng at the coal owner's request)	
	45.1-346 (Replugging a w	ell previously plugged)	
TALLOTTO ATL AL	E DEFECTIVE AC DEPARTMENT		
וו או כבסובה	e plugging as permitted	1	
		d not V sales any change(=) in the pluming as specified in the w	all web acea
The well	operator did dio	d not X sake any change(s) in the plugging as specified in the w	
The well	operator did dio	the Inspector or Assistant Inspector under Regulation 4.03 of the Regulat	
The well	operator did dio		
The well nich changes rginia Oil	operator did did were verbally approved by t and Gas Act, for the purpose	the Inspector or Assistant Inspector under Regulation 4.03 of the Regulat	ions under th
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FROM	<u>T0</u>	FORMATION	PLUGGING MATERIAL	BRIDGE PLUGS	OPEN HOLE	CASING
3692 <b>'</b>	3264 <b>'</b>	Knox	Water		x	
3264	3055	Stones River	Water	3055 <b>'</b>		45"
3055 <b>'</b>	2750	Stones River	Cement			4211
2750 <b>'</b>	2645	Stones River	Ge1			4½" Cut at 2645'
2645'	1400	Stones River Eggleston Trenton	Ge1		X	
1400	1300	Trenton Reedsville	Cement		X	
1300'	430 <b>'</b>	Reedsville Sequatchie Hagan Clinch Clinton	Ge1		X	
430'	378 <b>'</b>	Clinton	Cement		X	
378 °	330'	Clinton	Cement			10 3/4" casing
330 <b>'</b>	50 <b>'</b>	Clinton Cambrian Dolomite	Ge1			10 3/4"
50 <b>'</b>	0'	Cambrian Dolomite	Cement			10 3/4"

(FOR	OFFICE	API	Well	No.	45	-	-
(USE	ONLY:			State	Co	unty	Permit

Date: 1-6, 1989

Operator's
Well No. 8830

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES
219 Wood Avenue
Big Stone Cap, Virginia 24219-1799
Phone 703-523-0335

## WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown.

This plat is new / updated X /

This plat is / is not X / based on a mine coordinate system established for the areas of the well location.

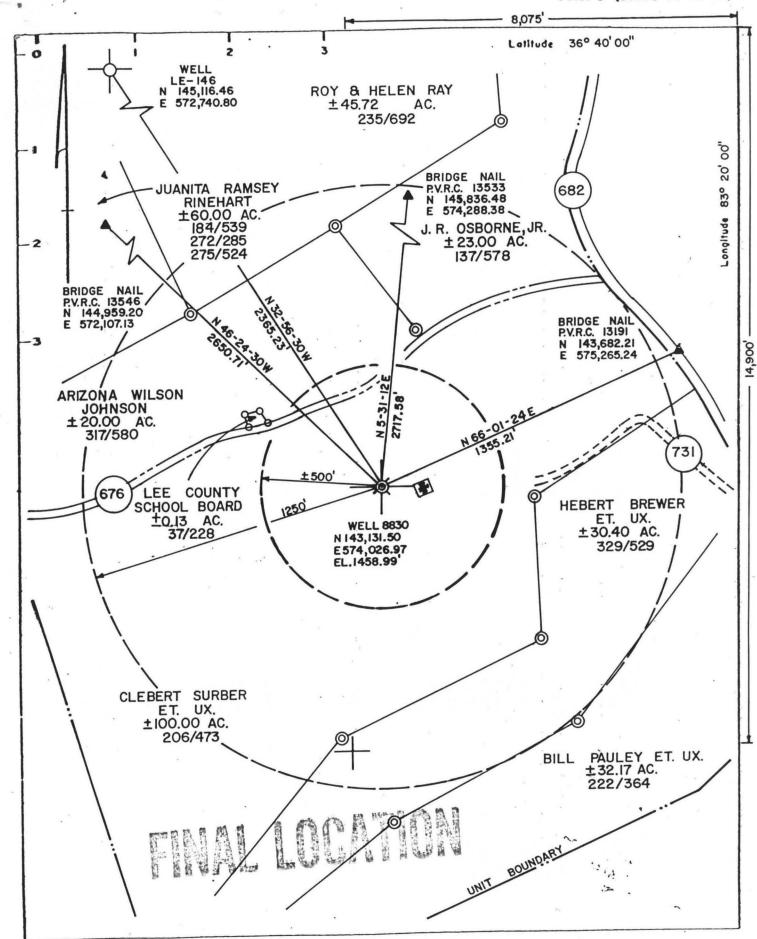
Well operator PENN VIRGINIA RESOURCES CORPORATION

P. O. BOX 386, DUFFIELD, VA 24244 Farm CLEBERT SURBER ET. UX. Tract Lease No. 45-1141.00 Acres ± 100.00 Elevation 1458.99 Quadrangle ROSE HILL County LEE District ROSE HILL Registered Engineer X Registration No. 13613 Certified Land Surveyor Cert. No File No. Drawing No. Date 8-30-88 Scale 1" = 400'

#### Certification of Well Plat

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board.

Registered Engineer or Certified Land Surveyor in Charge



#### VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

Page / of 2 Well Repository No.: W-7274

Date rec'd: Date Processed: JUNE / 1991 Sample Interval: from 450 to: 3690

PROPERTY: Clebert Surber LE-164

COMPANY: Well # 5830
PENN. VA. Resources

Oil or Gas: Water: Exploratory:

LEE

From-To From-To From-To From-To

- 750-760 1100 -1110 1450 -1460 1800 -1610
- 100 -170 1100 -1130 1410 -1720
- 170 -170 1100 -1130 1410 -1730
- 170 -170 1100 -1130 1410 -1730
- 170 -170 1100 -1150 1490 -1550

450-460 800-810 1150 -1160 1500 -1510 1600-1610

- Nos Amples	750-760 760-170 770-780 780-190 790-808	110 -1110 110 -1120 1130 -1146 1140 - 1150	1450 -1460 1470 -1470 1470 -1480 1480 -1491) 1490 -1500	1800 - 1810 1810 - 1870 1830 - 1830 1830 - 1840 1840 - 1850	
450=460 460=476 470=456 480=490 490=500	800 = 810 810 = 820 820 = 830 830 = 840 840 = 850	//50 = /(60 1/60 = //76 1/70 = //90 1/90 = /200	1500 - 1510. 1510 - 1520 1520 - 1530 1530 - 1540 1540 - 1550	1850-1860 1860-1870 1870-1880 1880-1890 1890-1900	
500 = 570 510 = 570 530 = 570 570 = 550	850= 560 810= 870 870= 780 890= 990 890= 900	170 = 1710 1210 = 1710 1220 = 1730 1230 = 1240 1140 = 1250	1550 =1560 1560 =1570 1570 =1580 1580 =1590 1580 =1600	1900=1910 1910=1920 1920=1930 1930=1940 1940=1950	*
550 = 560 510 = 570 570 = 580 580 = 590 590 = 606	900 = 91,0 910 = 970 920 = 930 930 = 940 940 = 950	1250 =1260 1260 =1270 1210 =1280 1280 =1290 1290 =1300	1600=/610 1610 =1620 1670 =1630 1630=1640 1640=1650	1950-1960 1960-1970 1970 -1990 1980 -1990 1999 - 2000	•
600 = 610 610 = 620 630 = 640 640 = 650	950 = 960 960 = 970 970 = 980 980 = 990 990 = 1800	1700 = 1310 1310 = 1320 1326 = 1370 1330 = 1340 1340 = 1350	1650 = 1660 1640 = 1670 1670 = 1670 1680 = 1696 1680 = 1700	2000-2010 2010-2026 2020-2036 2030-2040 2040-2050	
650 = 660 660 = 670 670 = 670 600 = 690 690 = 700	1000= 1010 1010 = 1020 1010 = 1030 1010 = 1050	1350 = 1360 1360 = 1370 1370 = 1360 1380 = 1390	1700= 1710 1710 = 1720 1720 = 1730 1730= 1740 1740 = 1750	2050 = 2060 2060 = 2070 2070 = 2086 2090 = 2090 2090 = 2100	
700 = 710 710 = 720 720 = 730 736 = 740 740 = 750	1050=1060 1060=1070 1076=1080 1070=1090 1090=1180	/400 =/4/0 /4/0 = 1426 /426 = 1430 /436 = 1440	1750 = 1740 1760 = 1770 1770 = 1750 1786 = 1790 1790 = 1800	2100 =2110 2110 =2120 2120 = 2136 2130 = 2140 2130 = 2150	,

## VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

# INTERVAL SHEET Continued

Page Z of Z		We	ell Repository No.:	W- 7224
From-To	From-To	From-To	From-To	From-To
2150 - 2160	2550 - 2520	2950-2960	3350-3360	-
2160 - 2170	2560 - 2570	3960-2970	3360-3370	
2170 - 2180	2570 - 2580	2970-2986	3370-3380	
2180 - 2190	2580 - 2590	2980-2990	3390-3390	
2190 - 2200	2590 - 2600	2990-3000	3390-3400	
7200 -2210	2600-2610	3000 - 3010	3400-3410	-
2210 - 7220	2610-2620	3010 - 3020	3410-3420	
2210 - 2236	2620-2630	3020 - 3030	3430-3430	
2230 - 2240	2630-2640	7030 - 3040	3430-3440	
2240 - 2250	2646-2650	3040 - 3050	3440-3450	
2250 - 2260 2260 - 2276 2270 - 2280 2280 - 1290 2290 - 2300	2650-2660 246-2670 2680-2680 2680-2690 2680-2700	3050 -3060 3060 -3070 3070 -3080 3080 -3090 3190 -3100	3450-3440 3460-3470 3460-3480 3490-3500	-
2300 - 7310	2700-2710	\$00 -3110	350-3510	
2310 - 2370	2710-2720	71/0 -3120	7510-3520	
2320 - 2330	2720-2730	3180 -3130	3520-3530	
2340 - 2340	2730-2740	3130 -3140	3530-3540	
2340 - 2350	2740-2756	3140 -3150	3540-3550	
2350 - 2360	2756 2760	3150_3160	3550-3560	
2360 - 2370	2710-2710	3160_3170	3510-3570	
2370 - 2380	2710-2710	3170_3180	3510-3580	
2390 - 2340	2710-2790	3186_3190	3590-3590	
2390 - 2400	2710-2500	3190_3200	3590-3600	
2400 - 2416	280-2810	7100-31/0	3600-3610	-
2410 - 2420	2810-2820	3210 - 3120	3610-3620	-
2420 - 2430	2820-2830	3230 - 3230	3620-3630	-
2430 - 2450	2830-2840	3230 - 324b	3630-3640	-
2440 - 2450	2846-2850	3240 - 3250	3640-3650	- , -
2450-2466 2460-2470 2470-2480 2490-2490 2490-2500	250-2560 250-2550 250-2550 2590-2596 2590-2900	3250- 3260 3260- 3270 3270- 3250 7250- 3290 3290- 330	3650-3660 3650-3650 3650-3680 3680-3690	
2500 - 2510 2570 - 2520 2580 - 2530 2530 - 2540 2540 - 2550	2900-2916 2910-2926 2910-2930 2930-2940 2940-2950	3700-3310 3310-3320 3320-3330 3330-3340 3340-3350		