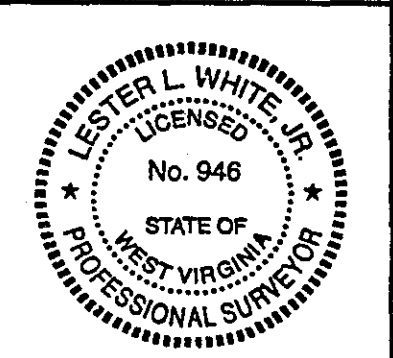


FILE NO. WW-1  
 DRAWING NO. WW-1PERMIT  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION BM 086 HARPER

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 issued and prescribed by the Department of Energy.

*Lester L. White Jr.*  
 Lester L. White Jr. P.L.S. NO. 946



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

○ Proposed well site

DATE May 22, 1998  
 OPERATOR'S WELL NO. WW-1  
 API WELL NO. 47 - 081 - 01146C

WELL TYPE: OIL \_\_\_\_\_ GAS XX LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 IF "GAS", PRODUCTION XX STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_ CBM XX

LOCATION: ELEVATION 1833.50 WATER SHED PAINT CREEK  
 DISTRICT \_\_\_\_\_ TOWN \_\_\_\_\_ COUNTY RALEIGH  
 QUADRANGLE ECCLES

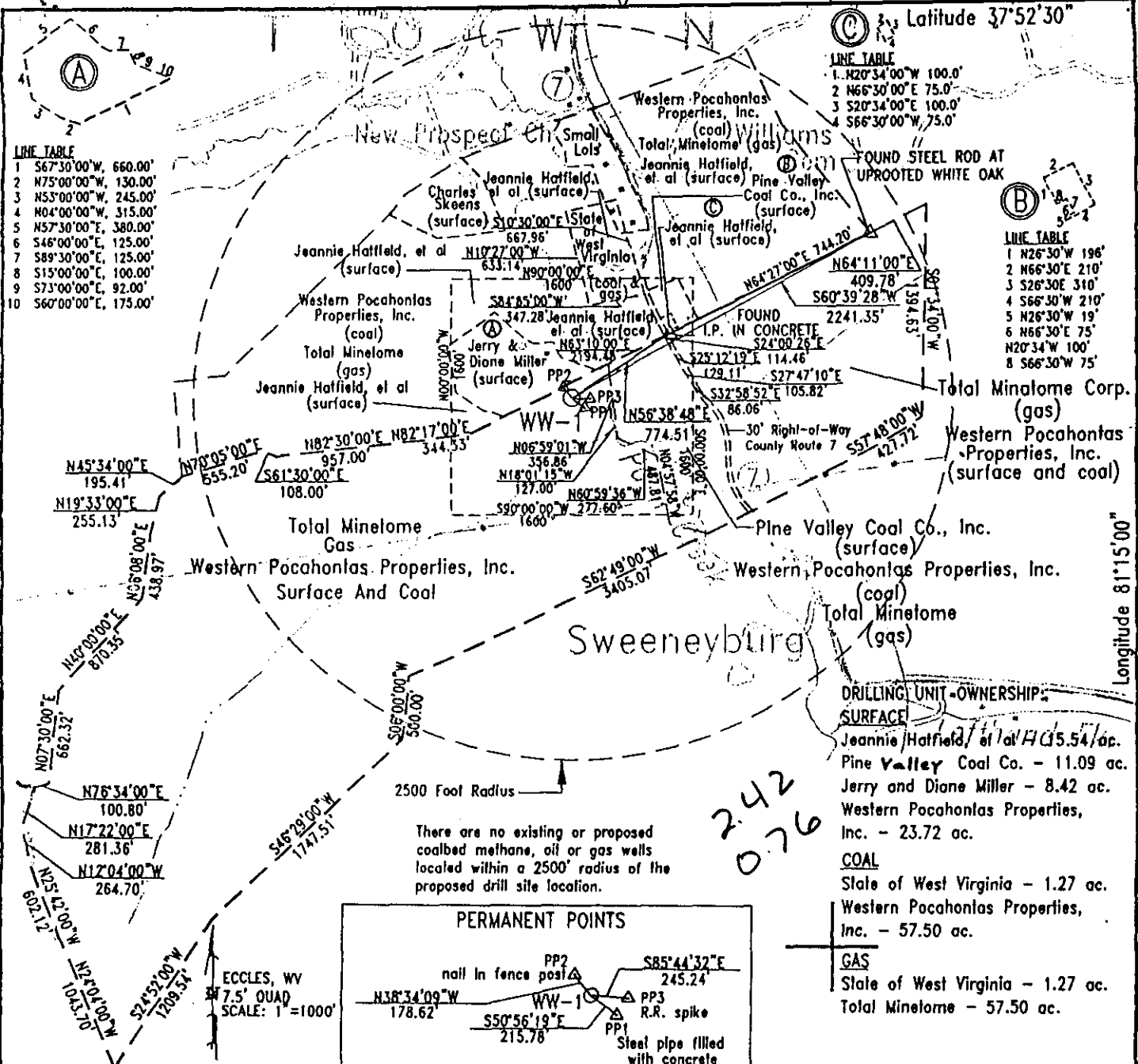
SURFACE OWNER: WESTERN POCAHONTAS PROPERTIES, L.P. LEASE ACREAGE 240.14  
 COALBED METHANE ROYALTY OWNER: WESTERN POCAHONTAS PROPERTIES, L.P. LEASE ACREAGE 5473.3

PROPOSED WORK: DRILL XX CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_  
 FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_  
 PERFORATE NEW FORMATION XX OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_

TARGET FORMATION POCAHONTAS 1 & 2 ESTIMATED DEPTH 1000'  
 WELL OPERATOR AMVEST OIL & Gas, Inc. DESIGNATED AGENT W. SCOTT PERKINS  
 ADDRESS P.O. BOX 5347 ADDRESS 31 FOX SPARROW RD.  
CHARLOTTESVILLE, VA 22905 BECKLEY, WV 25801

6-6-249



There are no existing or proposed coalbed methane, oil or gas wells located within a 2500' radius of the proposed drill site location.

**DRILLING UNIT-OWNERSHIP:**

**SURFACE**  
 Jeannie Hatfield, et al 15.54/ ac.  
 Pine Valley Coal Co. - 11.09 ac.  
 Jerry and Diane Miller - 8.42 ac.  
 Western Pocahontas Properties, Inc. - 23.72 ac.

**COAL**  
 State of West Virginia - 1.27 ac.  
 Western Pocahontas Properties, Inc. - 57.50 ac.

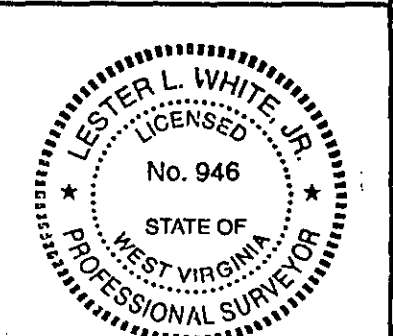
**GAS**  
 State of West Virginia - 1.27 ac.  
 Total Minelome - 57.50 ac.

2.42  
0.76

FILE NO. WW-1  
 DRAWING NO. WW-1PERMIT  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION BM 086 HARPER

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 issued and prescribed by the Department of Energy.

*Lester L. White Jr.*  
 Lester L. White Jr. P.L.S. NO. 946



WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS #10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

DATE May 22, 1998  
 OPERATOR'S WELL NO. WW-1  
 API WELL NO. 47 - 081 - 0146 C-F  
 STATE COUNTY FRAC PERMIT

WELL TYPE: OIL    GAS XX LIQUID INJECTION    WASTE DISPOSAL     
 IF "GAS", PRODUCTION XX STORAGE    DEEP    SHALLOW    CBM XX  
 LOCATION: ELEVATION 1833.50 WATER SHED    PAINT CREEK     
 DISTRICT    TOWN    COUNTY RALEIGH  
 QUADRANGLE ECCLES

SURFACE OWNER: WESTERN POCAHONTAS PROPERTIES, L.P. LEASE ACREAGE 240.14  
 COALBED METHANE ROYALTY OWNER: WESTERN POCAHONTAS PROPERTIES, L.P. LEASE ACREAGE 5473.3  
 PROPOSED WORK: DRILL XX CONVERT    DRILL DEEPER    REDRILL     
 FRACTURE OR STIMULATE    PLUG OFF OLD FORMATION     
 PERFORATE NEW FORMATION XX OTHER PHYSICAL CHANGE     
 IN WELL (SPECIFY)   

PLUG AND ABANDON    CLEAN OUT AND REPLUG     
 TARGET FORMATION POCAHONTAS 1 & 2 ESTIMATED DEPTH 1000'  
 WELL OPERATOR AMVEST Oil & Gas, Inc. DESIGNATED AGENT W. SCOTT PERKINS  
 ADDRESS P.O. BOX 5347 ADDRESS 31 FOX SPARROW RD.  
CHARLOTTEVILLE, VA 22905 BECKLEY, WV 25801

COUNTY NAME RALEIGH  
 PERMIT 1146 F

APR 14 2000

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Western Pocahontas Operator Well No.: WW-1  
 LOCATION: Elevation: 1833.50 Quadrangle: Eccles  
 District: Town County: Raleigh  
 Latitude: 12737 Feet South of 37 Deg. 52 Min. 30 Sec.  
 Longitude 3994 Feet West of 81 Deg. 15 Min. 0 Sec.

Company: AMVEST Oil & Gas, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: One Boar's Head Pointe	8.625	450	450	203-DNC
Charlottesville, VA 22903	7.0	558	558	95
Agent: Allen Mueller	4.5	981	981	73(TOC 691)
Inspector: Rodney Dillon				
Date Permit Issued: March 24, 2000				
Date Well Work Commenced: April 14, 2000				
Date Well Work Completed: June 7, 2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig Horn 23				
Total Depth (feet): 1000'				
Fresh Water Depth (ft.): 125', 550'				
Salt Water Depth (ft.): N.A.				
Is coal being mined in area (N/Y)? Yes				
Coal Depths (ft.): <u>133-34, 231-39, 487-92, 576-77, 670-72, 721-27, 779-84, 789-93</u>				

RECEIVED  
Office of Oil & Gas  
AUG 11 2004

WV Department of  
Environmental Protection

OPEN FLOW DATA

Producing formation Poca 2, 3, 4, 6, 9 coals Pay zone depth (ft) 576-793  
 Gas: Initial open flow N.A. MCF/d Oil: Initial open flow N.A. Bbl/d  
 Final open flow 31 MCF/d Final open flow 0 Bbl/d  
 Time of open flow between initial and final tests N.A. Hours  
 Static rock Pressure N.A. psig (surface pressure) after N.A. Hours

SEP 17 2004

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: John F. Sinclair  
 By: John F. Sinclair VP-Exploration  
 Date: 8/10/04

RA 1146 C

11/04/99 00:53 FAX

206

WR-35

03-Nov-99  
API # 47- 81-01146 C

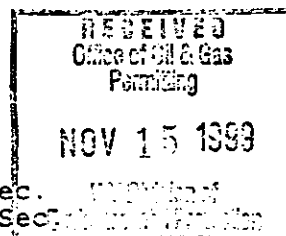
State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: W. POCAHONTAS LAND CORP. Operator Well No.: WW-1

LOCATION: Elevation: 1,833.00 Quadrangle: ECCLES

District: TOWN County: RALEIGH  
Latitude: 12737 Feet South of 37 Deg. 52Min. 30 Sec.  
Longitude 3994 Feet West of 81 Deg. 15 Min. 0 Sec.



Company: AMVEST OIL AND GAS, INC.

P. O. BOX 5347  
CHARLOTTESVILLE, VA 22903-0000

Agent: SCOTT W. PERKINS

Inspector: RODNEY DILLON

Permit Issued: 07/23/98

Well work Commenced: 10/26/98

Well work Completed: 11/04/98

Verbal Plugging

Permission granted on:

Rotary XX Cable \_\_\_\_\_ Rig

Total Depth (feet) 1000

Fresh water depths (ft) 125, 550

Salt water depths (ft) \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8.625	450	450	203-DNC
7.000	558	558	95
4.500	981	981	73

TOC @ 691

Is coal being mined in area (Y/N)? Y

Coal Depths (ft): 133, 231, 487, 576, 670, 721, 779, 789.

OPEN FLOW DATA

Producing formation Pocahontas #3 Pay zone depth (ft) 779-793  
Gas: Initial open flow 0 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: AMVEST OIL AND GAS, INC.

By: \_\_\_\_\_

Date: 11/12/99

Perforated but not stimulated - Details on back

RAL 1146 C

NOV 15 1999

Well: WW-1                      Permit No: 47-81-1146C  
 District: Town                      County: Raleigh

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

11/04/98    Ran 4-1/2" casing w/ frac baffles @ 592, 692, 758, & 787

12/03/98    Perforated coal 779-793 w/ 38 - 2-1/8 charges  
 Did not frac

Formation	Top	Bottom	Remarks
Shale	0	45	
Sand	45	60	
Shale	60	110	
Sand	110	133	Water 100 gpm
Coal	133	134	
Shale	134	164	
Sand	164	178	
Sand and Shale	178	190	
Sand	190	231	
Coal	231	239	
Shale	239	243	
Sand	243	487	
Coal	487	492	
Sand	492	555	Water 350 gpm
Shale	555	576	
Coal	576	577	
Sand	577	670	
Coal	670	672	
Shale	672	721	
Coal	721	727	
Sand and Shale	727	779	
Coal	779	784	
Shale	784	789	
Coal	789	793	
Sand and Shale	793	840	
Shale	840	890	
Sand and Shale	890	960	
Sand	960	1000	
TD		1000	

Well: WW-1  
District: Town

Permit No: 47-81-1146C  
County: Raleigh

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

4/20/00

MIRU Halliburton and Key Energy

Fraced previously perforated Poca 2 (789-793) and Poca 3 (779-784) coals with nitrogen foam, placing 7,300 lbs. 16/30 sand. Set frac plug at 756'. High TP.

Perforated Poca 4 coal (720-732), and fraced with nitrogen foam, placing 8,800 lbs. 16/30 sand. Set frac plug at 706'. High TP.

Perforated Poca 6 (670-674) and Poca 9 (576-578) coals, and fraced with nitrogen foam, placing 25,500 lbs. 16/30 sand.

Formation	Top	Bottom	Remarks
Shale	0	45	
Sand	45	60	
Shale	60	110	
Sand	110	133	Water 100 gpm
Coal	133	134	
Shale	134	164	
Sand	164	178	
Sand and Shale	178	190	
Sand	190	231	
Coal	231	239	
Shale	239	243	
Sand	243	487	
Coal	487	492	
Sand	492	555	Water 350 gpm
Shale	555	576	
Coal	576	577	
Sand	577	670	SEP 17 2004
Coal	670	672	
Shale	672	721	
Coal	721	727	
Sand and Shale	727	779	
Coal	779	784	
Shale	784	789	
Coal	789	793	
Sand and Shale	793	840	
Shale	840	890	
Sand and Shale	890	960	
Sand	960	1000	
TD		1000	