

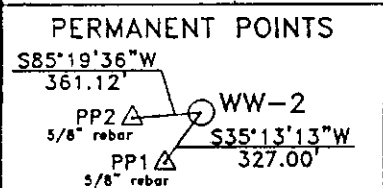
**LINE TABLE**

1	N11°00'00"E	477.157'
2	N65°00'00"E	295.0'
3	S26°27'45"E	249.28'
4	S38°30'48"W	197.62'
5	S76°15'35"W	104.16'
6	S50°29'24"W	141.17'
7	S27°38'13"W	60.41'
8	S66°30'26"W	142.86'

There are no other existing or permitted coalbed methane, oil or gas wells located within 2500' of the drill site.

**DRILLING UNIT OWNERSHIP**

SURFACE	COAL
Western Pocahontas Properties, Inc.-26.90 ac.	Western Pocahontas Properties, Inc.-46.11 ac.
Ricki Paul Nicolau-16.89 ac.	Crab Orchard Coal and Land Company-7.02 ac.
Charlie M. & Mable Ann Daniels-0.04 ac.	Anker West Virginia Mining Company, Inc.-4.47 ac.
Luther & Oma Bolon-2.47 ac.	Norfolk and Western Railway Co.-1.17 ac.
Donald Beckelheimer-2.85 ac.	
Annie Beckelheimer Heirs-4.47 ac.	
Jerome S. Legursky - 1.44 ac.	
G.C. Hendrick Heirs-2.54 ac.	
Norfolk and Western Railway Co.-1.17 ac.	
	Total Minetome Corp.-46.11 ac.
	Crab Orchard Coal and Land Company-5.58 ac.
	Jerome S. Legursky - 1.44 ac.
	Norfolk and Western Railway Co.-1.17 ac.
	Annie Beckelheimer Heirs - 4.47 ac.



FILE NO. WW-2

DRAWING NO. WW-2PERMIT

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1:2500

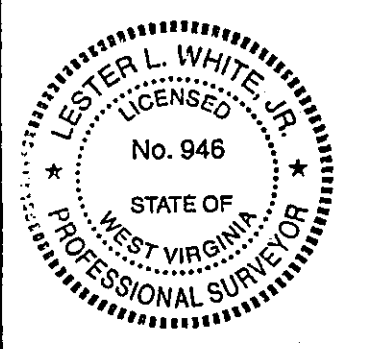
PROVEN SOURCE OF ELEVATION BM 086

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-2

API WELL NO. 47 - 081 - 01147C

STATE COUNTY PERMIT

WELL TYPE: OIL XX GAS XX LIQUID INJECTION XX WASTE DISPOSAL XX

IF "GAS", PRODUCTION XX STORAGE XX DEEP XX SHALLOW XX CBM XX

LOCATION: ELEVATION 2054.3 WATER SHED PAINT CREEK

DISTRICT ECCLES TOWN PAINT CREEK COUNTY RALEIGH

QUADRANGLE ECCLES

SURFACE OWNER: WESTERN POCAHONTAS PROPERTIES, L.P. LEASE ACREAGE 75.00

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

PROPOSED WORK: DRILL XX CONVERT XX DRILL DEEPER XX REDRILL XX

FRACTURE OR STIMULATE XX PLUG OFF OLD FORMATION XX

PERFORATE NEW FORMATION XX OTHER PHYSICAL CHANGE IN WELL (SPECIFY) XX

PLUG AND ABANDON XX CLEAN OUT AND REPLUG XX

TARGET FORMATION POCAHONTAS 1 & 2 ESTIMATED DEPTH 1100'

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

5920

6-6 249

RALEIGH COUNTY NAME PERMIT 1147C

MAY 27 1998

WEST VIRGINIA- RALEIGH  
AMVEST OIL & GAS INC  
WW-2 WESTERN POCAHONTAS PROPERTIES LP  
EL: 2054 GR

PERMIT 1147  
37.50.00 81.17.30  
8167 S 2767 W  
D DG GAS-CB  
UNNAMED

API 47-081-21147

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**SPUD**: 11/05/1998 **COMP**: 11/12/1998 **ELEV**: 2054 GR  
**ID**: 1100 (11/12/1998) **FM/ID**: POCAHONTAS NO 2 COAL **DTD**: 1100  
**CONTR**: UNKNOWN (VERTICAL)  
**PROJ DEPTH/FM**: 1100 POCAHONTAS **PERMIT #** 1147 (ST APPD PMT: 07/27/1998) **LEASE**  
**TYPE**: FEE **TARGET OBJ**: METH

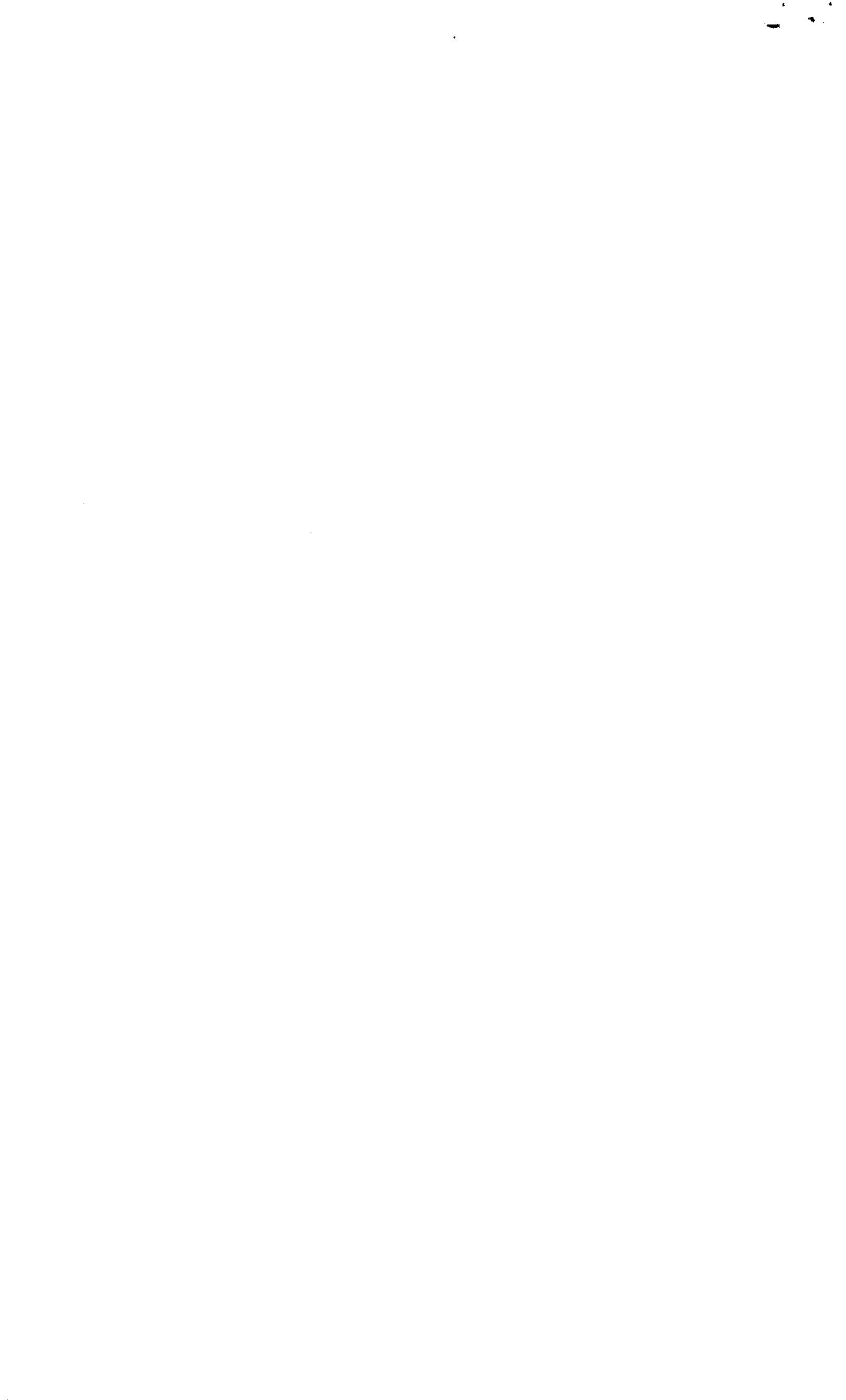
1100 DTD COMP 11/12/1998 # 001 IPF GAS: UG PROD ZONE: PERF (POCAHONTAS) 872-884 ;  
NO CORES OR DSTS

**LOCATION DATA**: TOWN DIST; ECCLES 7.5 QUAD; 5473 ACRE LSE TOWN DIST; ECCLES 7.5  
QUAD; 5473 ACRE LSE;  
**CASING**: 8 5/8 IN @ 502 W/319 CF, 4 1/2 IN @ 1087 W/224 CF;  
**DRLG SHOWS**: 246-253 COAL, 297-302 COAL, 524-528 COAL, 647-648 COAL, 720-721 COAL,  
871-884 COAL;

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(CONTINUED)

**PRODUCING INTERVALS DATA**: # 001 PERF (POCAHONTAS) 872-884 ; NATURAL (872-884)  
GAS: UGIP NOT RPTD  
**OPER ADD**: BOX 5347, CHARLOTTESVILLE, VA 22903, ;







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-2

LOCATION: Elevation: 2047.0 Quadrangle: Eccles

District: Town County: Raleigh  
Latitude: 8167 Feet South of 37 Deg. 50 Min. 00 Sec.  
Longitude 2767 Feet West of 81 Deg. 17 Min. 30 Sec.

Company: \_\_\_\_\_

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: One Boar's Head Pointe	8.625	502	502	319-DNC
Charlottesville, VA 22903	4.5	1087	1087	224-CTS
Agent: Allen Mueller				
Inspector: Rodney Dillon				
Date Permit Issued: March 24, 2000				
Date Well Work Commenced: April 10, 2000				
Date Well Work Completed: May 31, 2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig Horn <input type="checkbox"/>				
Total Depth (feet): 1100'				
Fresh Water Depth (ft.): 40' - 50'				
Salt Water Depth (ft.): N.A.				
Is coal being mined in area (N/Y)? Yes				
Coal Depths (ft.): <u>246-253, 297-302, 524-528, 647-648, 720-721, 871-884</u>				

OPEN FLOW DATA

Producing formation Poca 2,3,6,9 & Beckley coals Pay zone depth (ft) 524-884  
Gas: Initial open flow N.A. MCF/d Oil: Initial open flow N.A. Bbl/d  
Final open flow 0 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests N.A. Hours  
Static rock Pressure 0 psig (surface pressure) after N.A. 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.

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

SEP 17 2004

RECEIVED  
Office of Oil & Gas

AUG 11 2004

WV Department of  
Environmental Protection

RAL 1147C

Well: WW-2 Permit No: 47-81-1147C  
 District: Town County: Raleigh

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

4/13/00 MIRU Halliburton and Key Energy  
 Fraced previously perforated Poca 2 (878-884) and Poca 3 (871-875) coals with nitrogen foam, placing 26,000 lbs. 16/30 sand. Set frac plug at 750'  
 Perforated Poca 6 (720-721) and Poca 9 (646-650) coals, and fraced with nitrogen foam, placing 25,200 lbs. 16/30 sand. Set frac plug at 576'  
 Perforated Beckley coal (524-528), and fraced with nitrogen foam, placing 6,500 lbs. 16/30 sand. Screened out.

Formation	Top	Bottom	Remarks
Shale	0	40	
Sand	40	50	Water 1/2"
Sand and Shale	50	68	
Sand	68	78	
Shale	78	85	
Sand	85	190	
Shale	190	246	
Coal	246	253	Mined
Sand and Shale	253	272	
Sand	272	297	
Coal	297	302	
Sand and Shale	302	325	
Sand	325	428	
Shale	428	435	
Sand	435	492	
Shale	492	524	
Coal	524	528	
Sand and Shale	528	570	
Sand	570	610	
Sand and Shale	610	647	
Coal	647	648	
Shale	648	653	
Sand	653	666	
Sand and Shale	666	683	
Sand	683	694	
Sand and Shale	694	710	
Sand	710	720	
Coal	720	721	
Sand and Shale	721	871	
Coal	871	884	
Sand and Shale	884	904	
Sand	904	912	
Sand and Shale	912	942	
Shale	942	1031	
Sand	1031	1085	
Shale	1085	1100	
TD		1100	

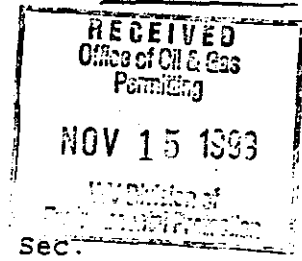
SEP 17 2004

WR-35

03-Nov-99  
API # 47-81-01147 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 PROPERTIES Operator Well No.: WW-2

LOCATION: Elevation: 2,054.00 Quadrangle: ECCLES

District: TOWN County: RALEIGH  
Latitude: 8167 Feet South of 37 Deg. 50Min. 0 Sec.  
Longitude 2767 Feet West of 81 Deg. 17 Min. 30 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: 11/05/98  
Well work Completed: 11/12/98  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary XX Cable \_\_\_\_\_ Rig  
Total Depth (feet) 1100  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8.625	502	502	319-DNC
4.500	1087	1087	224-CTS

Is coal being mined in area (Y/N)? Y  
Coal Depths (ft): 246, 297, 524, 647,  
720, 871

OPEN FLOW DATA

Producing formation Pocahontas #3 Pay zone depth (ft) 871-884  
 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

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For: AMVEST OIL AND GAS, INC.

By: [Signature]  
Date: 11/12/99

Perforated but not stimulated - Details on back

NOV 23 1999

RAL 1147C



Well: WW-2                      Permit No: 47-81-1147C  
 District: Town                      County: Raleigh

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

11/12/98    Ran 4-1/2" casing w/ frac baffles @ 561, 693, & 760

12/03/98    Perforated coal 871.5-884 w/ 23 - 2-1/8 charges  
 Did not frac

Formation	Top	Bottom	Remarks
Shale	0	40	
Sand	40	50	Water 1/2"
Sand and Shale	50	68	
Sand	68	78	
Shale	78	85	
Sand	85	190	
Shale	190	246	
Coal	246	253	Mined
Sand and Shale	253	272	
Sand	272	297	
Coal	297	302	
Sand and Shale	302	325	
Sand	325	428	
Shale	428	435	
Sand	435	492	
Shale	492	524	
Coal	524	528	
Sand and Shale	528	570	
Sand	570	610	
Sand and Shale	610	647	
Coal	647	648	
Shale	648	653	
Sand	653	666	
Sand and Shale	666	683	
Sand	683	694	
Sand and Shale	694	710	
Sand	710	720	
Coal	720	721	
Sand and Shale	721	871	
Coal	871	884	
Sand and Shale	884	904	
Sand	904	912	
Sand and Shale	912	942	
Shale	942	1031	
Sand	1031	1085	
Shale	1085	1100	
TD		1100	