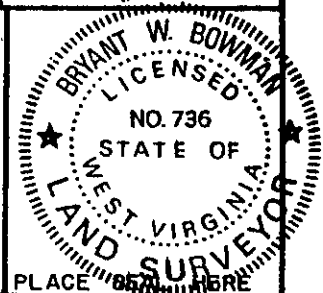


REFERENCES NO SCALE

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=2000'  
 MINIMUM DEGREE OF ACCURACY 1:7500  
 PROVEN SOURCE OF ELEVATION USGS BM ON MCDONALD MILL BRANCH ELEVATION 1410

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 MINES.  
 (SIGNED) Bryant W. Bowman  
 R.P.E. \_\_\_\_\_ L.L.S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE JUNE 20 2001  
 OPERATOR'S WELL NO. SLC-5  
 API WELL NO. \_\_\_\_\_  
47 - 109 - 2095C  
 STATE COUNTY PERMIT

Division of Environmental Protection  
 Office of Oil & Gas

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 ( IF "GAS", PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_ )  
 LOCATION: ELEVATION 1451 WATER SHED MCDONALD MILL CREEK  
 DISTRICT CLEAR FORK COUNTY WYOMING  
 QUADRANGLE OCEANA  
 SURFACE OWNER R. C. CROUCH ET AL ACREAGE 4012.7±  
 OIL & GAS ROYALTY OWNER R. C. CROUCH ET AL LEASE ACREAGE 4012.7±  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL  
 ADDRESS PO BOX 387 DUFFIELD, VA 24244-0387 ADDRESS PO BOX 460 RAVENCLIFF, WV 25913

SEP 28 2001

CHARLESTON BLUEPRINT 092541

WYO 2095 C

State of West Virginia  
Division of Environmental Production  
Section of Oil and Gas  
Well Operator's Report of Well Work

*mt*

Farm Name Crouch, R.C., etal  
LOCATION: Elevation: 1451

Operator Well No.: SLC-5  
Quadrangle: Oceana

District: Clear Fork County: Wyoming  
Latitude: 5400 Feet South of 37 Deg. 40 Min. 00 Sec.  
Longitude: 1900 Feet West of 81 Deg. 37 Min. 30 Sec.

Company:  
**Penn Virginia Oil & Gas Corporation**

	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	13 3/8"	31'	31'	0
Duffield, VA 24244	9 5/8"	130'	130'	59
Agent: Harry Jewell	4 1/2"	1296'	1296'	392
Inspector: Ofie Helmick				
Date Permit Issued: 09/26/2001				
Date Well Work Commenced: 10/03/2001				
Date Well Work Completed: 11/12/2001				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 1,410				
Fresh Water Depth (ft):				
3" @ 85', 1 1/2" @ 140', 3" @ 450'				
Salt Water Depth (ft):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft):				
30'-35', & see log				

OPEN FLOW DATA

Producing formation Beckley, Poca 6 & Poca 4 Coals Pay zone depth (ft) \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow Not taken MCF/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests: \_\_\_\_\_ Hours

Static rock pressure Not taken 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 CHANE, TEC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: \_\_\_\_\_  
By: William M. Ryan  
Date: 11/12/01

MAR 15 2002

WYO 2095C

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

PERFORATIONS AND FRACTURING

Stage 1-Poca 4 Coal-Perforated from 1128' to 1131' with 12 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 209 bbls water and 5600 lbs 20/40 sand. ISIP: 1172 psi. ATP: 3115 psi. ATR: 20 BPM.

Stage 2-Poca 6 Coal-Perforated from 973' to 976' with 12 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 133 bbls water and 3100 lbs 20/40 sand. ISIP: 1057 psi. ATP: 2098 psi. ATR: 20 BPM.

Stage 3-Beckley Coal-Perforated from 808' to 811' with 12 holes. Breakdown with 250 gallons 7.5% HCL acid and water. Treated with 328 bbls water and 12400 lbs 20/40 sand. ISIP: 1089 psi. ATP: 2956 psi. ATR: 20 BPM.

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Sand, shale & coal	0	360	
Sand & shale	360	420	
Sand	420	660	
Sand & shale	660	795	
Shale	795	808	
Beckley coal	808	811	
Shale	811	896	
Sand	896	974	
Pocahontas 6 Coal	974	975	
Sand	975	1114	
Shale	1114	1129	
Pocahontas 4 Coal	1129	1130	
Sand	1130	1298	
Sand & shale	1298	1410	No Show Reported