

LATITUDE 38°45' 00"

LONGITUDE 81°32' 30"

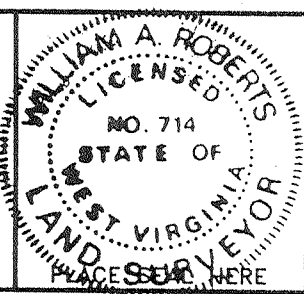
NORTH

× "X" ON ROCK  
 ☒ STONE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 00-172-1  
 SCALE 1" = 300'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION KNOB 2000' EAST OF LOCATION, ELEV. 981.0

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.  
 (SIGNED) William A. Roberts  
 R.P.E. \_\_\_\_\_ L.L.S. # 714



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE MAY 5, 2000  
 OPERATOR'S WELL NO. HAYNES # 1  
 API WELL NO. \_\_\_\_\_  
47 - 035 - 02475  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_\_\_ DEEP  SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 925.0 WATER SHED LAUREL RUN  
 DISTRICT WASHINGTON COUNTY JACKSON  
 QUADRANGLE KENTUCK 7.5'

SURFACE OWNER CLOVIS HAYNES ACREAGE 29 1/4  
 OIL & GAS ROYALTY OWNER ELIZABETH WARD PERKINS et.al. LEASE ACREAGE 5,248  
 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 BASEMENT ESTIMATED DEPTH 14,500'  
 WELL OPERATOR B.N.G. PRODUCTIONS & DRILLING, Inc. DESIGNATED AGENT JEFFERY BOGGS  
 ADDRESS 882 CHARLESTON ROAD ADDRESS 882 CHARLESTON ROAD  
SPENCER, WV. 25276 SPENCER, WV. 25276

JUN 2 2000  
 612/2000  
 batch  
 09 EP WELL  
 (-) (000)

WR-35

DEEP

DA: August 23, 2001  
API #: 47-083-2475

ALB

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

Well Operator's Report of Well Work

Farm name: Haynes #1 Operator Well No.: Haynes#1

LOCATION: Elevation: 925 Quadrangle: Kentuck 7'5

District: Washington County: Jackson  
Latitude: 800 45 Feet South of 38 Deg. 45 Min. 00 Sec.  
Longitude 800 Feet West of 91 Deg. 32 Min. 30 Sec.

Company: BNG Producing & Drilling Inc

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1248 Charleston Road Spencer, WV 25276	26'	20'		
Agent: Jeffery C. Boggs	20"	300'	300'	surface
Inspector: Larry Parish	13 3/8"	2050	2050	surface
Date Permit Issued: May 20, 2000	9 5/8"	4643	4643'	1500' linear
Date Well Work Commenced: July 4, 2000	7"	5615	5615'	1900' linear
Date Well Work Completed: July 26, 2001	4 1/2"	8700'	8700'	2100' linear
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig #3				
Total Depth (feet): 9775'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 1385', 2005, 6250'				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.):				

RECEIVED  
Office of Oil & Gas  
Permitting  
AUG 31 2001  
WV Department of  
Environmental Protection

OPEN FLOW DATA

Producing formation Black River Pay zone depth (ft) 9770  
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 6300 psig (surface pressure) after 24 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: Jeffery C. Boggs  
By: Jeffery C. Boggs  
Date: August 23, 2001

SEP 7 2001

JAC 2475

0	-	1385'	sand /shale	fresh water @ 250'
1385	-	1585'	Saltsand	Salt water 1" stream
1585	-	2050'	Lime/shale	
2050	-	2120'	Big Injun	2" Stream Salt water
2120	-	5230'	Dev Shale	
5230	-	5610'	Onondaga Lime	
5610	-	5690'	Oriskany	Dry
5690'	-	6230'	lime	
6230	-	6250'	Newburg	3" Stream Saltwater
6250	-	6580'	Lime	
6580	-	7020'	Rose Hill Shale	
7020'	-	7110'	Tuscarora Sand	Gas show under fluid
7110'	-	8700'	Martinsburg Shale	
8700'	--	9770'	Trenton/Black River	Gas: 50-75' Flare

Pressure/Flow Test Data

9775'-- 75' flare- 80 psi choke pressure, 1 1/16" choke  
shut-in 1 hr 700 psi buildup  
flow one hr 50' flare- 60 psi choke pressure 1 1/16" choke  
shut-in 1 hr 735 psi buildup  
flow one hr 75' flare- 80 psi choke pressure 1 1/16" choke  
shut-in 3 hrs. 1250 psi  
flow while coming out of hole- 11 hrs  
shut in 8 hrs 3150 psi  
open flow- 75' flare after blowdown- 90 psi choke pressure 1 1/16" choke  
flow while coming out of hole 9 hrs.  
shut in 15 hrs-- 4400 psi  
shut in 24 hrs-- 6300' psi

Hole Deviation tests

4400'	2°
5600'	6°
6200'	3°
6500'	2 1/2°
7100'	1/4°
8620'	1/4°