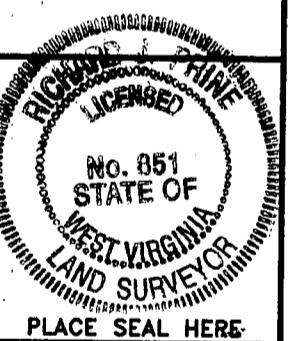


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 99-224  
 SCALE 1"=400'  
 MINIMUM DEGREE OF  
 ACCURACY 1 IN 200  
 PROVEN SOURCE OF  
 ELEVATION APPROX. 1320' SOUTH  
 WEST OF WELL ELEV. 1171

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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF ENERGY.  
 (SIGNED) *[Signature]* R.P.E. *[Signature]* L.L.S. *[Signature]*



PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS  
 WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1185 WATER SHED SHAVER FORK OF LEFT HAND RUN  
 DISTRICT GEARY COUNTY ROANE  
 QUADRANGLE LOONEYVILLE 7.5  
 SURFACE OWNER HOBERT COOK ACREAGE 8.17  
 OIL & GAS ROYALTY OWNER WILLA GROVES HEIRS LEASE ACREAGE 70.32  
 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 BLACK RIVER ESTIMATED DEPTH 10,500'  
 WELL OPERATOR BNG PRODUCING & DRILLING INC. DESIGNATED AGENT HARRY C. BOOGS  
 ADDRESS SPENCER, WV 25276 ADDRESS SPENCER, WV 25276



Office of Oil and Gas  
1356 Hansford Street  
Charleston, WV 25301  
Phone: (304) 558-6075  
Fax: (304) 558-6047

## West Virginia Department of Environmental Protection

Bob Wise,  
Governor

October 29, 2002

Michael O. Callaghan,  
Cabinet Secretary

### FINAL INSPECTION REPORT

### WELL PERMIT RELEASED

BOGGS ENERGY, INC.,

The FINAL INSPECTION REPORT for the permit, API Well Number: 47-8704253, issued to BOGGS ENERGY, INC., and listed below has been received in this office, and reclamation requirements approved. The well designated by the permit number below has been released under reclamation and will remain under your bond.



James Martin  
Chief,  
Office of Oil and Gas

Operator: BOGGS ENERGY, INC.

Operator's Well No: 6455

Farm Name: COOK, HOBERT

**API Well Number: 47-8704253**

Date Issued: 11/06/2001

1001

RECEIVED  
Office of Oil & Gas  
SEP 12 2002  
WV Department of  
Environmental Protection

## 11. WAS INSPECTOR ON SITE DURING THE FOLLOWING:

A. CONSTRUCTION YES  NO  B. DRILLING YES  NO   
C. PIT TREATMENT YES  NO  D. RECLAMATION YES  NO

## 12. IS EQUIPMENT AND SITE BEING PROPERLY MAINTAINED TO PREVENT WASTE?

A. SPILLS YES  NO  B. SOLID WASTE YES  NO  12. (3PTS) 2

## 13. IS EQUIPMENT BEING PROPERLY OPERATED TO MAINTAIN SAME CONDITIONS?

A. BLOW OUT PREVENTER YES  NO  B. FLOW LINE YES  NO   
C. FIRE EXTINGUISHER YES  NO  D. OTHERS YES  NO  13. (3PTS) 3

## TOTAL POINTS AVAILABLE FOR QUESTION 14:

14. (18PTS) 1614. WAS ROAD AND LOCATION PROPERLY RECLAIMED? YES  NO 

A. ROADWAY YES  NO  (2PTS) B. LOCATION YES  NO  (2PTS)  
C. PITS YES  NO  (2PTS) D. PIPELINES YES  NO  (2PTS)  
E. TANK DIKES YES  NO  (2PTS) F. GATES & FENCES YES  NO  (2PTS)  
G. API NUMBER INSTALLED YES  NO  (2PTS)  
H. ADEQUATE SEEDING MATERIALS YES  NO  (2PTS)  
I. WAS SEED BED ADEQUATE YES  NO  (2PTS) J. SOIL pH BEFORE \_\_\_\_ AFTER \_\_\_\_  
K. WAS PIT COVERED WITHIN 30 DAYS YES  NO

## TOTAL POINTS AVAILABLE FOR QUESTION 15:

15. (15PTS) 0

## 15. WAS RECLAMATION COMPLETED WITHIN:

6 MONTHS OF TD YES  NO  8 POINTS  
4 MONTHS OF TD YES  NO  3 POINTS  
2 MONTHS OF TD YES  NO  4 POINTS

2158

## 16. TOTAL RECLAMATION SCORE:

79

DATE  
8/19/99  
8/30/99  
9/3/99  
9/7/99  
9/9/99  
9/14/99  
9/17/99  
9/28/99  
9/30/99  
10/4/99  
10/16/99  
10/18/99  
10/11/99  
  
10/12/99  
10/18/99  
10/19/99  
10/20/99  
10/28/99  
11/1/99  
12/22/99

## VISITS

Location built + Location Stored + Roled.  
Bore mud pumps, water tank + Generator House on Location  
Sub-base set up + Power w/line + motor on base.  
Crew repairing on sub-base floor plates + on Derrick  
Crew working on setting up mud system  
Working on rig + mud system  
still Rigging up painting + decking set  
Repairing rat hole edges  
Building chain guards on rig floor for stable drive  
Drilling Mouse hole  
Compressor problems Weighting on Posts  
MDC on Conductor 26"  
TD, of 24" Hole 125 ft. Repeated to Run 29",  
air flowing out between well bore + mouse hole  
Water 46 ft to 50 ft. Called Jerry Stephcock agreed to  
run + cement 20 ft  
Run 125 ft. 20" + cemented with 140 socks.  
Drilling on air at 1400 ft. with 17 1/2" Bit  
1700 ft deep + pull pipe backed off 3:30 PM. Jeff Bong  
on location with fishing tool made up + started hole  
Rig top section pulled up on fishing tool. Crew moving  
Drill pipe + pipe to get Derrick down + set fall and were  
Cutting up top section to haul to shop.  
Rig fall cut up + moved off loc. No one working today  
New Derrick for rig to be built in days  
Most of new Derrick posts on loc. assembling Derrick.

8/23/02

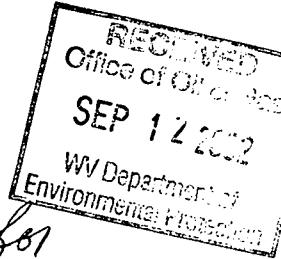
DATE RELEASED

*H. H. Dougherty*  
INSPECTOR

## B.N.G. Producing + Drilling Inc.

47-087-04253

Cook #6455



10/3/2000 Derrick in air and finishing set up.

1/4/00 Rig + Derrick done + Ready to start fishing for  
Backed off Drill pipe

1/5/00 Logging truck + B.J. Hughes pump truck on loc.  
Pulling on fishing tool at 1030ft. Fishing tool not  
hooked on to Pipe + Collars on bottom

1/7/00 Fishing tool out of hole going to go to fluid +  
condition hole

1/10/00 Changing flow line to Shale Shaker on mud system.

1/13/00 Cleaning cuttings out of 5 1/2" Drill pipe with power  
Swivel on air with 1" Drill pipe from 1130ft. to T.D. 1700ft.

1/19/00 Washing over one 8" Drill Collar to 8 17/16" Hammer Bit  
Well was over + strip and go back in + screw into fish.

1/20/00 Rig pulling out of hole with Hydraulic Jars + fish  
1 8" Collar + 17 1/2" Hammer Bit 4:15 P.M.  
(Pouring Down snow + new clutches)  
Collar + Bit back on floor that was lost  
on 10/19/99. Fishing job over.

1/24/00 Starting rig back up today had been shut  
down since fishing job.

1/27/00 Rig shut down no one working today.

1/31/00 Drawing out steel pits, flow lines + Pumps.

2/3/00 1705 ft. deep Just back on bottom Drilling on fluid

2/4/00 Drilling on fluid at 1775 ft. 17" Bit cone.

2/7/00 Had run + cemented 1796 ft of 13 3/8" pipe  
Rig W.O.C.

2/10/00 Crows Nipping up on 13 3/8" Setting BOP + flow line

2/14/00 300 ft Deep on air 12 1/4" Bit

2/16/00 Drilling on air at 4043 ft. 12 1/4" Bit

2/18/00 Rig Shift down Bearing out of Rig Compound Drill  
at 300 ft Deep.

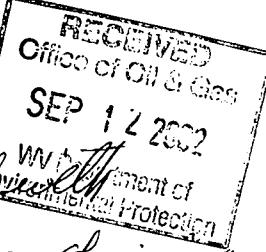
2/23/00 5528 ft. Deep on air with 12 1/4" Bit

2/25/00 T.D. of 12 1/4" Hole 6025 ft. for Setting 9 5/8" Pipe  
60 ft. Below Oil sand

# BNG Producing + Drilling

49-087-04253

Cook # 6455



- 2/28/00 Ran 6003 ft. of 9 5/8" Casing and cemented in well. 165 Sacks by B. J. Hughes.
- 3/1/00 No one working on rig today Crew in H2S Training
- 3/3/00 Nipping up on 9 5/8" Casing
- 3/6/00 Water Unloaded from 9 5/8" Cement Job. shoe drilled off & Drying up hole
- 3/7/00 6050 ft. Deep hole wet going to squeeze cement formation.
- 3/10/00 6234 ft. Deep out of hole for 8 3/4" Bit Trip.
- 3/13/00 7600 ft Deep on air with 8 3/4" Bit going to Trip at 7700 ft.
- 3/15/00 8070 ft. Deep on Air
- 3/17/00 Drill string hung, going to back off Bottom Collar.
- 3/23/00 Fishing for Collar & Bit
- 3/27/00 Running Drill pipe in well to cement on top of 13' foot Drill Collar & Bit. Will drill around.
- 4/3/00 T.D. of 8 3/4" Hole for 7" Casing 8020.
- 4/11/00 Tripping 3 1/2" Drill pipe in hole Tested Rama + Bop on 4/9/00
- 4/18/00 9360 ft. Deep going on Fluid 6 1/4" Bit
- 4/26/00 Running Drill pipe in hole Well Control people from Michigan on location
- 5/1/00 9900 ft. Deep on Fluid
- 5/4/00 Drilling on Fluid at 10215 ft. 6 1/4" Bit
- 5/5/00 T.D. of Well 10352 on 11 lb. Mud.
- 8/23/02 Finished Reclamation on location for the 3rd. Lime Lined, Fertilized, seeded & mulched. Reclamation OK to Release on location

H. H. Dougherty

087-4253  
State of West Virginia  
Division of Environmental Protection  
Office of Oil and Gas  
Discharge Monitoring Report  
Oil and Gas General Permit

Hoff H 1  
Frac water  
Frac.

Company Name: BNG Producing & Drilling inc  
API: 47-087-4523 County: Roane  
District: Smithfield

Farm Name: Hoff #1 Well No: #1

Discharge Dates/s From:(MMDDYY) 11-01 TO:(MMDDYY) 11-05

Discharge Times : From \_\_\_\_\_ TO \_\_\_\_\_

Disposal Option Utilized: UIC (2): \_\_\_\_\_ Permit No. \_\_\_\_\_

Centralized Facility (5): \_\_\_\_\_ Permit No. \_\_\_\_\_

Reuse (4): \_\_\_\_\_ Alternate Permit Number: \_\_\_\_\_

Offsite Disposal(3): \_\_\_\_\_ Site Location: \_\_\_\_\_

Land Application(1):<sup>xx</sup> (Include a topographical map of the Area.)

Other method(6): \_\_\_\_\_ (Include an explanation)

Follow Instructions below to determine your treatment category.

Optional Pretreatment test: \_\_\_\_\_ Cl- mg/l \_\_\_\_\_ DO Mg/l

1. Do you have permission to use expedited treatment from the Director or his representative? (Y/N) Y If yes who? Mike Lewis, and place a four (4) on line 7. If not go to line 2

2. Was Frac Fluid or flowback put into the pit? (Y/N) \_\_\_\_\_ If yes go to line 5 if not go to line 3

3. Do you have a chloride value pretreatment (see above)? (Y/N) \_\_\_\_\_ If yes go to line 4 if not go to line 5

4. Is that chloride level less than 5000 mg/l? (Y/N) \_\_\_\_\_ If yes then enter a one (1) on line 7

5 Do you have a pretreatment value for DO? (See above) (Y/N) \_\_\_\_\_ If yes then go to line 6 if not enter a three (3) in line 7.

6 Is that DO greater than 2.5 mg/l? (Y/N) \_\_\_\_\_ If yes then enter a two (2) on line 7 If not enter a three (3) on line 7.

7. 4 is the category of your pit. Use the Appropriate section.

Name of Principal Exec. Officer Jeffery C. Loggs

Title of Officer Secretary

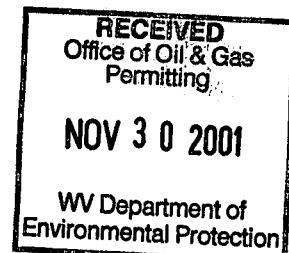
Date Completed: 11-26-01

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of a Principal Exec. Officer or Authorized agent

Jeffery C. Loggs

Signature



WR-34  
 Page 3 of 3  
 Category 3  
 Sampling Results  
 API NO :

Parameter	Predischarge Limit	Reported	Discharge Limits	Reported	Units
pH	6-10		6-10		S.U
Settling Time	20		N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	.5		.5		mg/l
Cl*	12,500		12,500		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Al***			Monitor		mg/l
TSS			Monitor		mg/l
Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gals.
Flow			Monitor		Gals
Grease and Oil			Monitor		mg/l
Disposal Area			Monitor		Acres

\* Can Be 25,000 with inspectors approval,  
 (Inspector) \_\_\_\_\_ Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

\*\*\* Al is only reported if the pH is above 9.0

Category 4  
 Sampling Results  
 API NO :

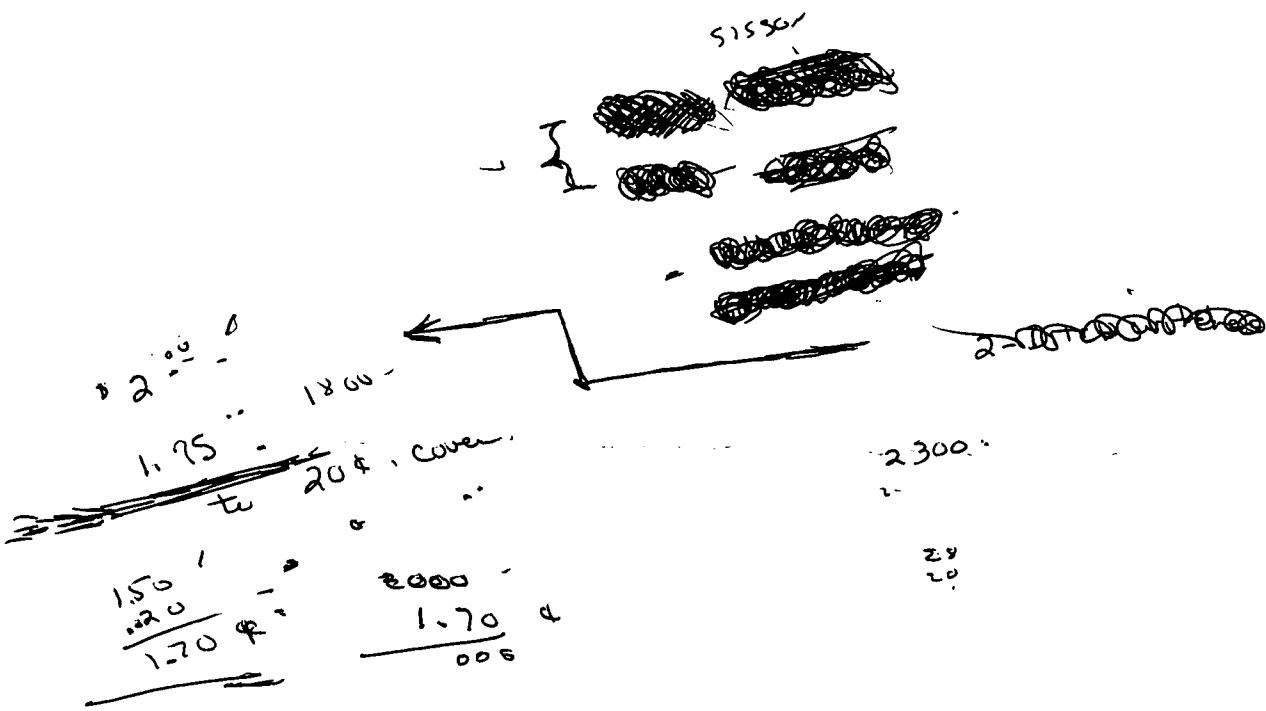
Parameter	Predischarge Limit	Reported	Discharge Limits	Reported	Units
pH	6-10	7.72	6-10		S.U
Settling Time	1		N/A	N/A	Days
Fe	Monitor	3.2	Monitor		mg/l
D.O.	Monitor		Monitor		mg/l
Settleable Sol.	Monitor	3/0	Monitor		mg/l
Cl*	12,500	54	12,500		mg/l
Oil	Trace		Trace		Obs.
TOC			Monitor		mg/l
TSS			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Mn	Monitor		Monitor		mg/l
Volume	4400 BBL/S		Monitor		Gals.
Flow			Monitor		Gals
Activated Carbon	.175		N/A	N/A	lb./bl
Date Site Reclaimed	N/A	N/A			10 Days from Dis.
Disposal Area			Monitor		Acres

\* Can Be 25,000 with inspectors approval,  
 (Inspector) \_\_\_\_\_ Date: \_\_\_\_\_

RECEIVED  
 Office of Oil & Gas  
 Permitting

NOV 30 2001

WV Department of  
 Environmental Protection





Office of Oil and Gas  
1356 Hansford Street  
Charleston, WV 25301  
Phone: (304) 558-6075  
Phone: (304) 558-6076  
Fax: (304) 558-6047

## West Virginia Department of Environmental Protection

Bob Wise,  
Governor

Michael O. Callaghan  
Secretary

November 06, 2001

### WELL WORK PERMIT

#### Pit Only Permit

This permit, API Well Number: 47-8704253, issued to BOGGS ENERGY, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-654-3312 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

This permit will expire in two (2) years from the issue date.

If there are any questions, please feel free to contact me or Mr. Al Blankenship at 304-558-6342.



James Martin  
Interim Chief,  
Office of Oil and Gas

Operator's Well No: 6455

Farm Name: COOK, HOBERT

**API Well Number: 47-8704253**

**Permit Type: Pit Only Permit**

Date Issued: 11/06/2001

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name BNG Producing & Drilling Inc OP Code 6455

Watershed Shaver Fork Quadrangle Looneyville 7.5

Elevation 1185 County Roane District Garver

Description of anticipated Pit Waste: FRESH water, from frac

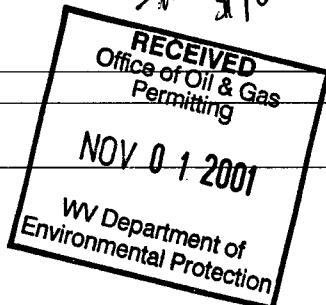
Will a synthetic liner be used in the pit? No

Proposed Disposal Method For Treated Pit Wastes:

Land Application  
 Underground Injection ( UIC Permit Number \_\_\_\_\_)  
 Reuse (at API Number \_\_\_\_\_)  
 Off Site Disposal (Supply form WW-9 for disposal location)  
 Other (Explain \_\_\_\_\_)

Proposed Work For Which Pit Will Be Used:

Drilling  Swabbing  
 Workover  Plugging  
 Other (Explain Dispose of water)



I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jeffrey C. Bogg

Company Official (Typed Name) Jeffrey C. Bogg

Company Official Title Secretary

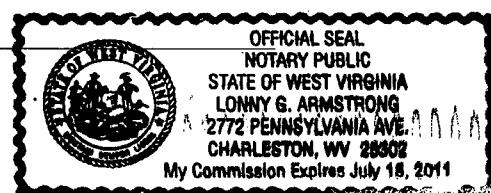
Subscribed and sworn before me this 2<sup>nd</sup> day of November, 2001

Notary Public

My commission expires July 18, 2011

\$100.

CK #1035



## LEGEND

Property Boundary	Diversion
Road	Spring
Existing Fence	Wet Spot
Planned Fence	Drain Pipe with size in inches
Stream	Waterway
Open Ditch	Cross Drain
Rock	Artificial Filter Strip
North	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	

Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

### Seed Mixtures

Seed Type	Area I lbs/acre	Area II Seed Type lbs/acre
<u>orchard grass</u>	<u>15</u>	
<u>Ladino</u>	<u>5</u>	
<u>Rye on Banks</u>	<u>20</u>	

### Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: H. H. Dougherty  
Title: 11/2/01 District Director Date: 11/2/01



SCALE 1:24000

17'30"

CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

IMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.  
TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

447-087-04253

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Office of Oil & Gas  
Permitting

JUN 01 1999

WV Division of  
Environmental Protection

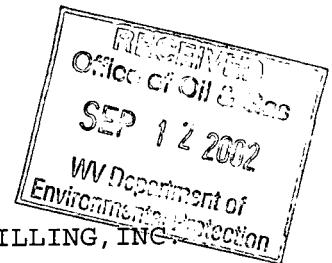
GEOLoGICAL Su  
338 47701

ROAD

Heavy-duty

U. S. Route

INSPECTOR'S PERMIT SUMMARY FORM



DATE STARTED/LOCATION: 8/2/99  
DRILLING COMMENCED: 7/16/99  
TD DATE: 5/5/00 DEPTH: 10352

API# 47- 87-04253  
OPERATOR: BNG PRODUCING & DRILLING, INC.  
FARM: COOK, HOBERT  
WELL NO.: 6455  
COAL DEPTHS No Coal

WATER DEPTHS

1. IS THE OPERATOR KEEPING DETAILED DRILLING AND CEMENT RECORDS:

YES  NO  (6 POINTS)

RAN 125 FEET OF 2 1/2" PIPE ON 10/1/99 CEMENTED WITH 140 SACKS (CIRCULATED) YES  NO   
RAN 1296 FEET OF 1 3/8" PIPE ON 2/6/00 CEMENTED WITH 140 SACKS (CIRCULATED) YES  NO   
RAN 2003 FEET OF 2 1/2" PIPE ON 2/28/00 CEMENTED WITH 165 SACKS (CIRCULATED) YES  NO   
RAN 8000 FEET OF 7 1/2" PIPE ON 4/19/00 CEMENTED WITH 140 SACKS (CIRCULATED) YES  NO

PIT DISCHARGE DATE: \_\_\_\_\_ TYPE: \_\_\_\_\_ WEATHER CONDITIONS: \_\_\_\_\_ LAND: \_\_\_\_\_

ACRES DISCHARGED: \_\_\_\_\_ PIT VOLUME: \_\_\_\_\_ PIT ADDITIVES: \_\_\_\_\_

FIELD ANALYSIS: pH \_\_\_\_\_ Fe \_\_\_\_\_ mg/l cl \_\_\_\_\_ mg/l D.O. \_\_\_\_\_ mg/L toc \_\_\_\_\_ mg/L

QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-6-28, 22-6-30, 22-6-6, 22-6-7, AND 22-6-27 AND REGULATION 38CSR 18-9.2.3, 38CSR 18-12.1, 38CSR 18-16.5, 38CSR 18-16.6.

TOTAL POINTS AVAILABLE FOR QUESTION 2:

2. (10 POINTS) 8

2. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING:

A. CONSTRUCTION YES  NO  (2 PTS) B. DRILLING YES  NO  (2 PTS)  
C. PIT TREATMENTS YES  NO  (2 PTS) D. PIT DISCHARGE YES  NO  (2 PTS)  
E. RECLAMATION YES  NO  (2 PTS)

3. DID THE OPERATOR HAVE PERMIT ON SITE? YES  NO

3. (4 POINTS) 4

4. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES  NO

4. (4 POINTS) 4

5. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES  NO  5. (4 PTS) 4

TOTAL POINTS AVAILABLE FOR QUESTION 6:

6. (21) POINTS 21

6. WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED?

A. ROAD DITCHES YES  NO  (3 PTS) B. CROSS DRAINS YES  NO  (3 PTS)  
C. CULVERTS YES  NO  (3 PTS) D. CREEK CROSSINGS YES  NO  (3 PTS)  
E. DIVERSION DITCHES YES  NO  (3 PTS) F. BARRIERS YES  NO  (3 PTS)  
G. TEMPORARY SEEDING YES  NO  (3 PTS)

7. HAS TOP SOIL (IF ANY) BEEN STOCKED PILED? YES  NO  7. (2 PTS) 2

8. IS THE WELL STAKE IN THE PROPER SPOT IN ACCORDANCE WITH 38CSR-9.2.3 AFTER CONSTRUCTION? YES  NO  8. (3 PTS) 3

9. IS THE PIT PROPERLY INSTALLED?  
A. WALLS COMPACTED YES  NO   
B. FREE OF DEBRIS BEFORE LINING YES  NO   
C. LINED YES  NO   
D. FLUIDS CONTAINED YES  NO   
E. FREE OF NON EXEMPT/RESTRICTED MATERIALS YES  NO   
F. PROPERLY TREATED YES  NO

9. (6 PTS) 6

10. DID INSPECTOR APPROVE ALL MODIFICATIONS YES  NO

TOTAL POINTS PAGE 1 (60 PTS) 58

An D

State of West Virginia  
 Department of Environmental Protection  
 Office of Oil and Gas  
 Discharge Monitoring Report  
 Oil and Gas General Permit

Company Name: BNG Producing &amp; Drilling Inc

API: 47-037-4283

County: Roane

District: Smithfield

Farm Name: Hoff #1 Well No: #1

Discharge Dates/s From:(MMDDYY) TO:(MMDDYY) May 2000

Discharge Times : From \_\_\_\_\_ TO \_\_\_\_\_

Disposal Option Utilized: UIC (2): Permit No. \_\_\_\_\_

Centralized Facility (5): Permit No. \_\_\_\_\_

Reuse (4): Alternate Permit Number: \_\_\_\_\_

Offsite Disposal(3): Site Location: \_\_\_\_\_

Land Application(1): (Include a topographical map of the Area.)

Other method(6):XX (Include an explanation) Ace Tank hauled off pit fluid

Follow Instructions below to determine your treatment category.

Optional Pretreatment test: Cl- mg/l \_\_\_\_\_ DO Mg/l

1. Do you have permission to use expedited treatment from the Director or his representative? (Y/N) N If yes who? \_\_\_\_\_, and place a four (4) on line 7. If not go to line 2

2. Was Frac Fluid or flowback put into the pit? (Y/N) N If yes go to line 5 if not go to line 3

3. Do you have a chloride value pretreatment (see above)? (Y/N) N If yes go to line 4 if not go to line 5

4. Is that chloride level less than 5000 mg/l? (Y/N) \_\_\_\_\_ If yes then enter a one (1) on line 7

5 Do you have a pretreatment value for DO? (See above) (Y/N) N

If yes then go to line 6 if not enter a three (3) in line 7.

6 Is that DO greater than 2.5 mg/l? (Y/N) \_\_\_\_\_ If yes then enter a two (2) on line 7 If not enter a three (3) on line 7.

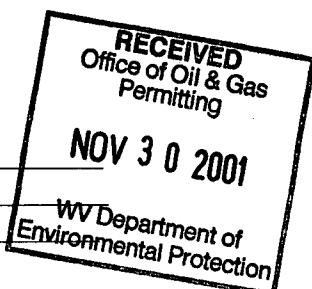
7. 3 is the category of your pit. Use the Appropriate section.

Name of Principal Exec. Officer Jeffery C. BoggsTitle of Officer SecretaryDate Completed: 11-20-2001

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of a Principal Exec. Officer or Authorized agent

Signature



NOV 07 2001

Category 3  
Sampling Results  
API NO :

087-4523

Parameter	Predischarge Limit	Reported
pH	6-10	_____
Settling Time	20	_____
Fe	6	_____
D.O.	2.5	_____
Settleable Sol.	.5	_____
Cl*	12,500	_____
Oil	Trace	_____
TOC**		
Al***		
TSS		
Mn	Monitor	_____
Volume		
Flow		
Grease and Oil		
Disposal Area		

\* Can Be 25,000 with inspectors approval,

(Inspector) \_\_\_\_\_ Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

\*\*\* Al is only reported if the pH is above 9.0

Category 4  
Sampling Results  
API NO :

Parameter	Predischarge Limit	Reported
pH	6-10	_____
Settling Time	1	_____
Fe	Monitor	_____
D.O.	Monitor	_____
Settleable Sol.	Monitor	_____
Cl*	12,500	_____
Oil	Trace	_____
TOC		
TSS		
Oil and Grease		
Mn	Monitor	_____
Volume		
Flow		
Activated Carbon	.175	_____
Date Site Reclaimed	N/A	N/A
Disposal Area		

\* Can Be 25,000 with inspectors approval,

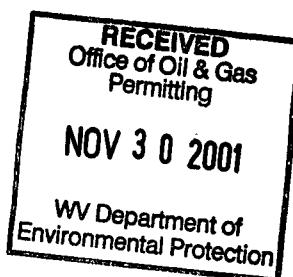
(Inspector) \_\_\_\_\_ Date: \_\_\_\_\_

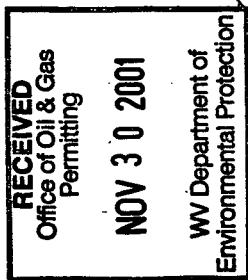
	Predischarge Limit	Reported	Discharge Limits	Units
	6-10	_____	S.U	
	N/A	N/A	Days	
	6	_____	mg/l	
	2.5	_____	mg/l	
	.5	_____	mg/l	
	12,500	_____	mg/l	
	Trace	_____	Obs.	
	Monitor	_____	mg/l	
	Monitor	_____	mg/l	
	Monitor	_____	mg/l	
	Monitor	_____	mg/l	
	Monitor	_____	Gals.	
	Monitor	_____	Gals	
	Monitor	_____	mg/l	
	Monitor	_____	Acres	

SALT Fluid Hauled  
out by ACE TANK

SEE ATTACHED

Invoice Sheets





## Tank Rental Inc.

PO Box 519, Buckhannon, WV 26201, Phone: 472-1363

MAY 24 2000

## TERMS

TO:

Boggs Drilling  
PO Box 148  
Spencer, WV 25276

May 24,

**DATE OF INVOICE**

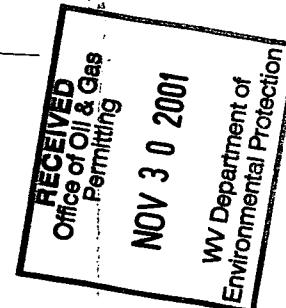


## Tank Rental Inc.

PO Box 519, Buckhannon, WV 26201, Phone: 472-1363

 TERMS: \_\_\_\_\_

MAY 12 2000



TO:

Boggs Natural Gas  
PO Box 148  
Spencer, WV 25276

May 11, 2000

DATE OF INVOICE

## WORK ORDER AND DELIVERY TICKET

TANK RENTAL, INC.

P.O. Box 519

Buckhannon, WV 26201

No. 8411

Phone: (304) 472-1363

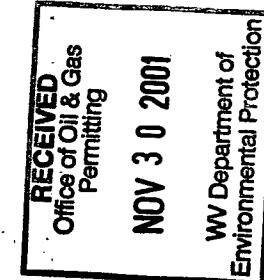
Lease Name or No.

Booq S

Well owned by Carper Well Service

P.O. Box 273, Reno, Ohio 45773

Lackey #5 Disposal Well

Date: 5-16-00  
UIC No. 261

Description of Material Hauled or Service Performed		Amount
Brine: Pit Water	120.00	110.00
Production Brine	Houff #1	120.00

This Service Has Been Performed Satisfactorily or Material Received in Good Order

Signed Steve MaysTANK RENTAL INC  
PO BOX 519  
BUCKHANNON WV 26201

No. Cents\*

No.

DATE

06/08/00

AMOUNT

\*\*\*2502.00\*\*\*

020133309 324 0625 0637 02  
Hamer O H

VOID AFTER (6) MONTHS

0000 250 200

THE REVERSE SIDE OF THIS DOCUMENT INCLUDES AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW  
040823 0515033231 1837782112

**CT&E Environmental Services Inc.**  
**Laboratory Division: Charleston Laboratory**

Lonny Armstrong  
 MARTIN TWIST ENERGY

Laboratory Number TA1-JD-P811-C01

Page 1

1,2,3  
 GRAB

DOC 012505  
 Date Sampled 10/30/01 15:00  
 Date Received 10/30/01 18:00

Type F Matrix WATER  
 Sampled by CLIENT

110101 1458 Ver. 4.0.192

## ANALYSIS FOR REQUESTED PARAMETERS

Analyzed Parameter	CAS No.	Result	Elg RLimit	Units	S Method	Date/Time/Anal	DilF
IRON, TOTAL	7439-89-6	3.2	0.050	mg/L	EPA200.7	10/31/01 21:34 JWJ	1.0
pH		7.72		S.U.	EPA150.1	10/31/01 14:45 TF	1.0
Total Dissolved Solids		310	5.0	mg/L	EPA160.1	10/31/01 16:30 MHS	1.0
Chloride		54	5.0	mg/L	EPA325.2	10/31/01 11:26 btp	1.0
Surfactants / Detergents (MBAS)		0.14	0.030	mg/L	EPA425.1	10/31/01 11:30 MHS	1.0
Fecal Coliform (Membrane Filter)		4000	1000	C/100	SM9222D	10/31/01 08:45 MHS	500

RECEIVED  
 Office of Oil & Gas  
 Permitting

NOV 30 2001

WV Department of  
 Environmental Protection



## CHAIN OF CUSTODY RECORD

# **CT&E Environmental Services Inc.**

## **Laboratory Division**

A rectangular stamp with a black border. Inside, the word "RECEIVED" is at the top, followed by "Office of Gas Permitting" on the left, and "NOV 3 8 2001" on the right. A large, bold "NO" is written across the center of the stamp.

WV Department of  
Environmental Protection

**Locations Nationwide**  
• Alaska      • Louisiana  
• Maryland      • Michigan  
• New Jersey      • West Virginia

012505

① CLIENT: MARTIN TWIST ENERGY  
CONTACT: LONNY ARMSTRONG PHONE NO: 304138-7383

### CT&E References

TAL-30-4811-001

PAGE 1 OF 1

PROJECT: 11 SITE:

REPORTS TO: LONNY ALMSTRÖM  
2644 CUNNING DR FAX NO: 304-345-3394

INVOICE TO: Charleston, WV 25302

**P.O. NUMBER:**

5 Collected/Renewed By (1) Date Time Received By:  
Lorrey Armstrong 10/30/01 3pm

4 Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Shipping Ticket No: <u>Client</u>	Temperature °C: <u>19 . 6</u>

Relinquished By: (2) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received By: \_\_\_\_\_

**Special Deliverable Requirements:**  **Chain of Custody Seal: (Circle)**

**Relinquished By: (3)** **Date** **Time** **Received By:**

**Requested Turnaround Time and Special Instructions**

Relinquished By: (4)	Date 10/30/01	Time 1800 3pm	Received For Lab Derrick
----------------------	------------------	---------------------	-----------------------------

24hr

WR-35  
Rev (5-01)

DATE:

API #: 47-087-4253

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

## Well Operator's Report of Well Work

Farm name: Hoff #1 Operator Well No.: #1 - 6455

LOCATION: Elevation: 1185 Quadrangle: Looneyville 7.5

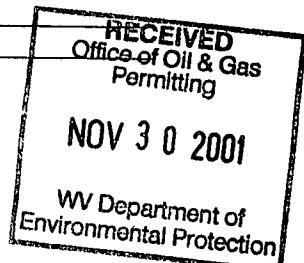
District: Smithfield County: Roane  
Latitude: 38 40 00 Feet South of 38 Deg. 40 Min. 00 Sec.  
Longitude: Feet West of 81 Deg. 15 Min. 00 Sec.

Company: BNG Producing &amp; Drilling Inc

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	20"	110	110	surface
Agent: Jeffery C. Boggs	13 3/8"	1786	1786	surface
Inspector: Homer Dougherty	9 5/8	6018	6018	195
Date Permit Issued: May 1999	7"	7800	7800	1500'
Date Well Work Commenced: June 1999	4 1/2"	10242	10242	1000'
Date Well Work Completed: May 2000				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Depth (feet): 10,700'				
Fresh Water Depth (ft.): 100'				
Salt Water Depth (ft.): 1300', 6000'				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.):				

## OPEN FLOW DATA

Producing formation Trenton/Black River Pay zone depth (ft) 9700-10700  
 Gas: Initial open flow 1200 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 1200 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 48 Hours  
 Static rock Pressure 3800 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:

By: *J. Jeffery Boggs*  
Date: 11-26-01

List  
Formations  
From \_\_\_\_\_ to  
TO

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

WELL WORK PERMIT

This permit, issued to BNG PRODUCING & DRILLING, INC. is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector HOMER DOUGHERTY at 304-543-0781 at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-654-3312 and to the Oil and Gas inspector.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

This permit shall expire within two (2) years from the issue date.

  
Ava C. Zeitz  
Chief  
Office of Oil and Gas

Date of Signature: 6/18/99

Operator's Well No: 6455

Farm Name: COOK, HOBERT

API Well Number : 47-087-04253

Date Issued : 6/14/99

Expires two (2) years from issue date.



STATE OF WEST VIRGINIA  
**OIL AND GAS CONSERVATION COMMISSION**  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506

June 11, 1999

Division of Environmental Protection  
Office of Oil and Gas  
Nitro, West Virginia

Re: Application for Permit #47-087-04253 to drill deep well.

COMPANY: BNG Producing & Drilling, Inc.

FARM: Robert Cook, Willa Groves Heirs/Hoff #1

COUNTY: Roane DISTRICT: Geary QUAD: Looneyville

The application of the above company is Approved for Black River.  
(Approved or Disapproved)

Applicant has complied with the provisions of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; yes

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of operator and; \*see below

3.) Provided a plat showing that the proposed location is a distance of 525 feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

A handwritten signature in black ink, appearing to read "Brett Moflin".  
Brett Moflin  
Engineer

State of West Virginia  
Bureau of Environment  
**OIL AND GAS CONSERVATION COMMISSION**  
#10 McJunkin Road  
Nitro, West Virginia 25143-2506

Barry K. Lay, Chairman  
Michael W. Sinicropi, Member  
Denny P. Harton, Member  
John H. Johnston, Ex-Officio  
Michael C. Castle, Ex-Officio

Telephone (304)759-0516  
Fax (304)759-0529

**A M E N D E D**

March 9, 2000

Division of Environmental Protection  
Office of Oil and Gas  
Nitro, West Virginia

Re: Application for Permit #47-087-04253 to drill deep well.

COMPANY: BNG Producing & Drilling, Inc.

FARM: Robert Cook/Groves Heirs/Hoff #1

COUNTY: Roane DISTRICT: Geary QUAD: Looneyville

The application of the above company is Approved for Basement.  
(Approved or Disapproved)

Applicant has complied with the provisions of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner(s); yes

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator, none

3.) Provided a plat showing that the proposed location is a distance of 525 feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

  
Brett Loflin  
Program Manager



Office of Oil and Gas  
10 McJunkin Road  
Nitro, West Virginia 25143-2506  
Telephone: (304) 759-0514  
Fax: (304) 759-0529

## West Virginia Division of Environmental Protection

Cecil H. Underwood  
Governor

Michael P. Miano  
Director

11-Jun-99

BNG PRODUCING & DRILLING, INC.

P. O. BOX 148  
SPENCER, WV  
25276-0000

Re: Well No. 6455  
API No. 47- 87-04253

Dear :

Enclosed is a well work permit which was issued 06/14/99 and applicable forms to be completed for reporting purposes during the well work activity. Please be advised that form WR-35, well operator's report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable.

Should stimulation still be required for the well, a disclaimer for such should be added to WR-35, and a revised WR-35 completed and submitted upon completion of the stimulation.

If there are any questions, please feel free to contact me at 304-759-0517 or Mr. Jamie Stevens at 304-759-0518.

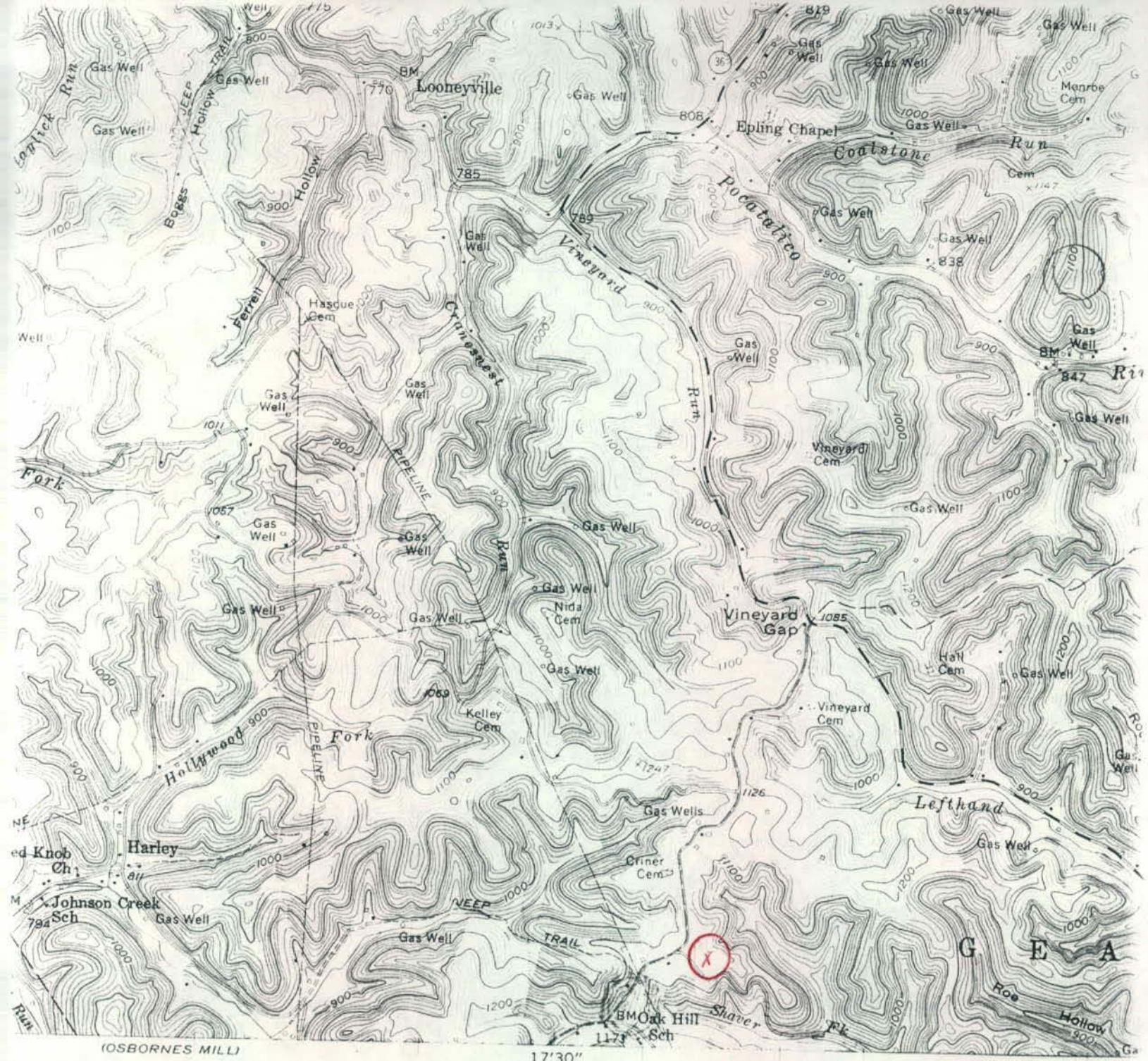
Sincerely,

Ava C. Zeitz, Chief  
Office of Oil and Gas

"To use all available resources to protect and restore West Virginia's environment in concert with the needs of present and future generations."



West Virginia  
Division of  
Environmental Protection



SCALE 1:24000

17'30"

CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

MPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.  
OGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

497-087-04253

QUADRANGLE LOCATION

RECEIVED  
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Permitting

JUN 01 1999

WV Division of  
Environmental Protection

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: BNG PRODUCING & DRILLING INC 4712 (2) 444

2) Operator's Well Number: 6455XX 3) Elevation: 1185

4) Well type: (a) Oil    or Gas XX 47-087-04253  
 (b) If Gas: Production    / Underground Storage    /  
 Deep XX / Shallow   /

5) Proposed Target Formation(s): BLACK RIVER

6) Proposed Total Depth: 10,500' feet

7) Approximate fresh water strata depths: 200'

8) Approximate salt water depths: 1400', 5800'

9) Approximate coal seam depths: NONE

10) Does land contain coal seams tributary to active mine? Yes    / No XX

11) Proposed Well Work: DRILL TO 10,500 on Air

12)

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 Permitting

JUN 01 1999

WV Division of  
 Environmental Protection

27192

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	surface
Conductor	20"	3515 wall.	178	109	908	400	skds
Fresh Water	13 3/8"	J-55	61	2000'	2000'	500'	350 skds
Coal	9 5/8"	N-80	40	6000'	6000'	1500'	400skds
Intermediate	7"	L-80	26	10,000	10,000	2500'	375 skds
Production	4 1/2"	P-100	13.5	10,500	10,500	3000'	350 skds
Tubing	2 3/8"	L-80	4.75			3805P161.1	
Liners							

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Single  Agent  
 (Type)

**BNG PRODUCING & DRILLING INC.**  
**P.O. BOX 148**  
**882 CHARLESTON ROAD**  
**SPENCER, WV 25276**  
**304-927-1236**

**Wednesday, May 26, 1999**

47-087-04253

**WVDEP**  
**OFFICE OF OIL AND GAS**  
**#10 MCJUNKIN ROAD**  
**NITRO, WV 25143**  
**BRETT LOFLIN/JAIME STEVENS**

**This letter is in regards to the cementing 400' of the 20" surface casing as shown on the enclosed casing design, for the drilling of the Hoff #1 Deep well.**

**Based on the recommendation of the field inspectors from the office of oil and gas and based on the precedent that Columbia Natural Resources set for the drilling of their well number 087-4250, I am requesting a waiver on the cementing of the 20" casing as follows:**

- 1. Drill 26"surface hole to depth of 410'**
- 2. Run 400' of 94#/ft 20" plane end line pipe- welded**
- 3. Run 1 1/2" tubing to 410' inside 20'. Pump 62 sks of neat cement through tubing and spot on bottom. Set down 20" on bottom. Wait 24 hours.**
- 4. Run 1 1/2" tubing down backside of 20" and tag top of cement near 385'**
- 5. Pump 39 bbl H2O inside of 20" (100') and 127 sks of cement down 1 1/2" (100' annular) pull tubing wait 4 hours.**
- 6. Run 1 1/2" into annulus tag top of cement near 275'.**
- 7. Pump 39 bbl H2O inside of 20" (100') and 127 sks of cement down 1 1/2" (100' annular). Pull tubing wait 4 hours.**
- 8. Run 1 1/2" into annulus tag top of cement near 75'.**
- 9. Pump 30 bbl H2O inside 20" (75') and 95 sks of cement down 1 1/2" (75' annular). Pull tubing wait 4 hours.**

**This design will assure that the entire 400' zone will be covered by cement and will decrease the possibility that cement circulation will be lost in a thief zone. By staging the process the collapse pressure of the casing will also be controlled.**

**If you have any further questions or suggestions please give me a call.**

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Office of Oil & Gas  
Permitting

JUN 01 1999

WV Division of  
Environmental Protection

**Sincerely,**

  
**Jeffery C. Boggs**

1) Date: May 20, 1999  
2) Operator's well number  
HOFF #1  
3) API Well No: 47 - 087 - 04253  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator:  
(a) Name Robert Cook Name None  
Address Looneyville WV Address \_\_\_\_\_  
(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_ Name \_\_\_\_\_ RECEIVED  
\_\_\_\_\_  
(c) Name \_\_\_\_\_ Name \_\_\_\_\_ JUN 01 1999  
Address \_\_\_\_\_ Address \_\_\_\_\_  
\_\_\_\_\_  
6) Inspector Homer Dougherty (c) Coal Lessee with Declaration  
Address Linden Rt Name \_\_\_\_\_ Environmental Protection  
Looneyville, WV Address \_\_\_\_\_  
Telephone (304)- 927 4591 \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
xxx Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

xx Personal Service (Affidavit attached)  
\_\_\_ Certified Mail (Postmarked postal receipt attached)  
\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator BNG PRODUCING & DRILLING INC.  
By: JEFFERY C. BOGGS Jeffery C. Boggs  
Its: Manager  
Address P.O. BOX 148  
SPENCER, WV 25276  
Telephone 304 927-1236

Subscribed and sworn before me this 25th day of May, 1999

Zerelda D. Richards  
My commission expires Sept 2 2003

Notary Public

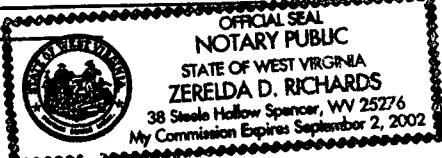
OFFICIAL SEAL

NOTARY PUBLIC

STATE OF WEST VIRGINIA

ZERELDA D. RICHARDS

38 Steele Hollow Spangler, WV 25276  
My Commission Expires September 2, 2002



West Virginia Division of Environmental Protection  
Office of Oil and Gas

HOFF #1

## NOTICE TO SURFACE OWNERS

47-087-084253

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

XX Contractor Name Environmental Solutions Laboratory, Spencer, WV  
\_\_\_\_ Well operator's private laboratory

Well Operator BNG PRODUCING & DRILLING INC  
Address PO Box 148  
Spencer, WV 25276

Telephone (304) 927-1236

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

1. DeWayne Hoff
2. Hobert Cook

RECEIVED  
Office of Oil & Gas  
Permitting

JUN 01 1999

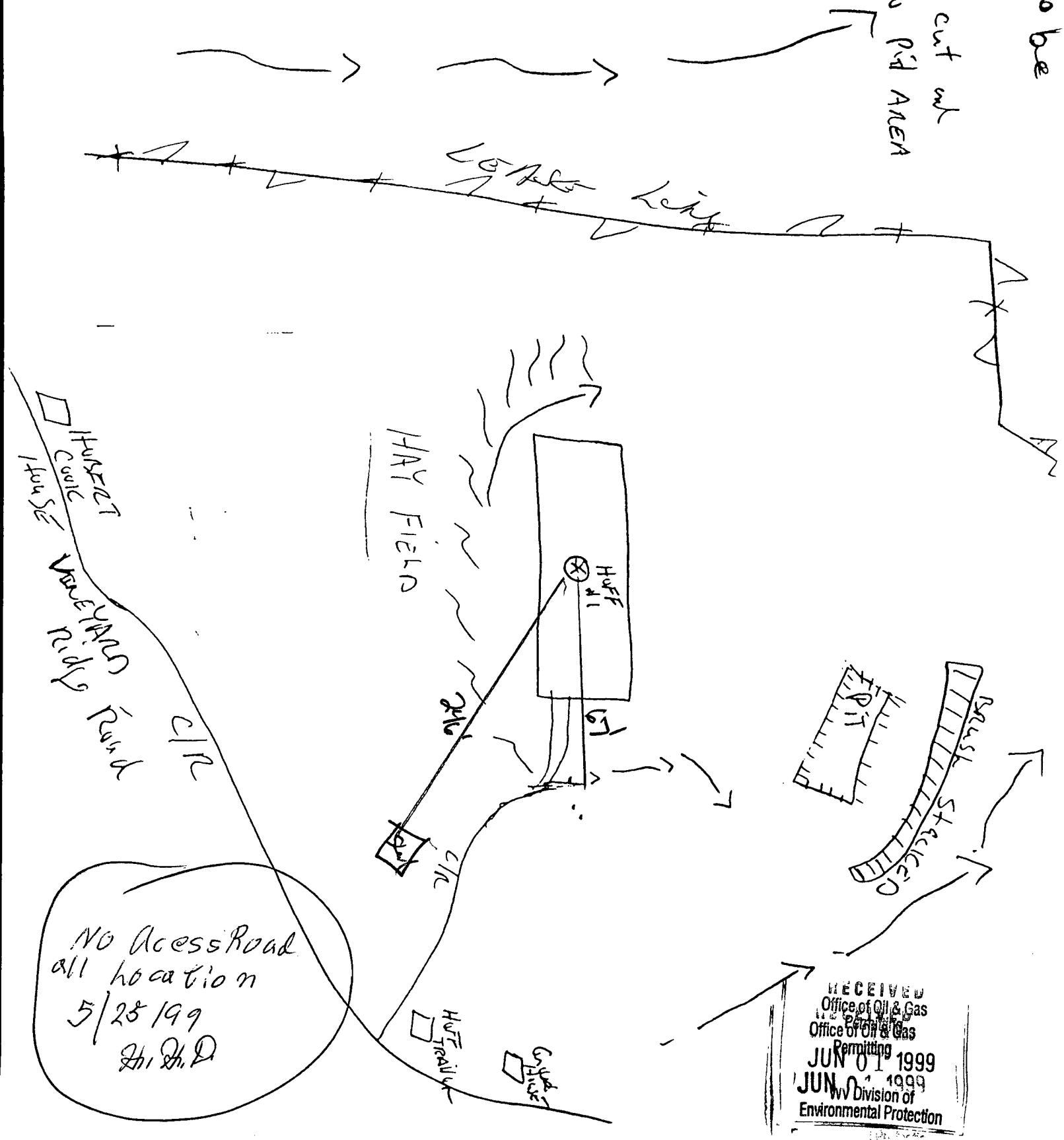
WV Division of  
Environmental Protection

(IF "GAS,") PRODUCTION    STORAGE    DEEP    SHALLOW

47-087-04253

Location to be  
sloped.

Log Timber cut out  
below Pit Area



47-087-04253

Operator's Well No. HoFF # 1

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE**  
**Chapter 22, Article 6, Section 8(d)**  
**IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that--

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book/Page</u>
Willa Groves&Bessie Sarver	John Stone	105/377	
JOHN STONE HC BOGGS	H.C. BOGGS BNG PRODUCING AND DRILLING INC.	116/767	

Well Operator: BNG PRODUCING & DRILLING INC.  
 By: JEFFERY C. BOGGS  
 Its: SECRETARY- MANAGER

RECEIVED  
 Office of Oil & Gas  
 Permitting  
 JUN 01 1999  
 WV Division of  
 Environmental Protection

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name BNG PRODUCING & DRILLING INC. OP Code 6455

Watershed SHAVER FK OF LEFT HAND Quadrangle LOONEYVILLE 7.5

Elevation 1185 County ROANE District GEARY

Description of anticipated Pit Waste: DRILL CUTTINGS, FRESH WATER, GELL WATER

Will a synthetic liner be used in the pit? YES

Proposed Disposal Method For Treated Pit Wastes:

Land Application  
 Underground Injection ( UIC Permit Number \_\_\_\_\_)  
 Reuse (at API Number \_\_\_\_\_)  
 Off Site Disposal (Supply form WW-9 for disposal location)  
 Other (Explain AIR DRILLING KILL DUST CODE 68)

Proposed Work For Which Pit Will Be Used:

Drilling Swabbing  
 Workover Plugging  
 Other (Explain \_\_\_\_\_)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on June 14, 1994, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jeffery C. Boggs

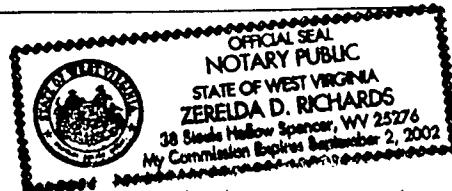
Company Official (Typed Name) Jeffery C. Boggs

Company Official Title SECRETARY MANAGER

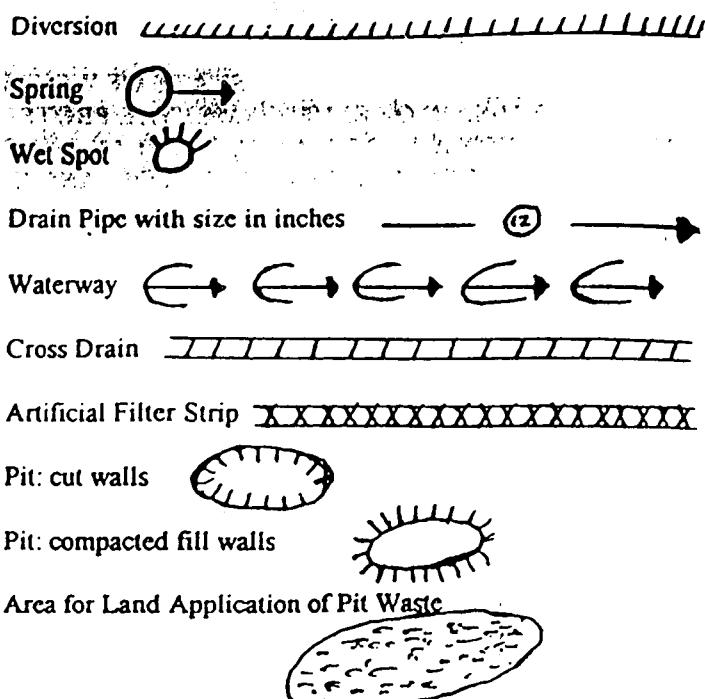
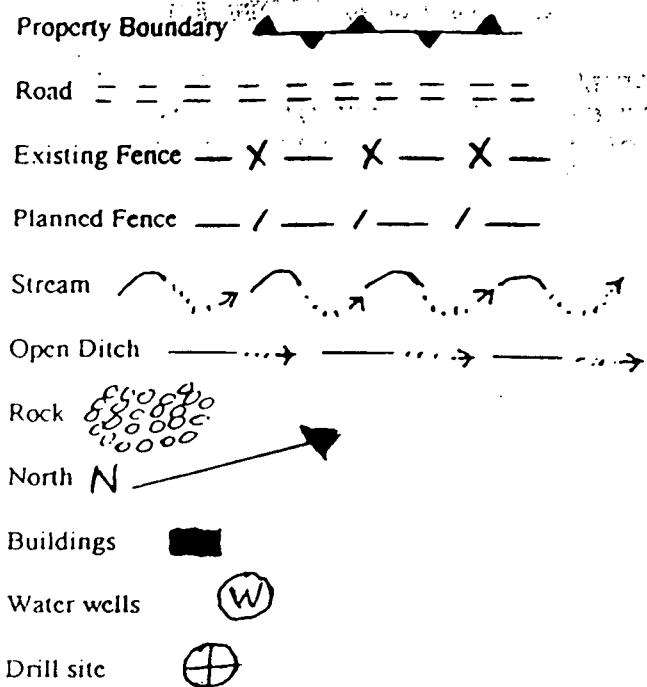
Subscribed and sworn before me this 25th day of May, 19 99

Zerelda D. Richards Notary Public

My commission expires Sept 2, 2002



### LEGEND



Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

### Seed Mixtures

Area I	
Seed Type	lbs/acre
Orchardgrass	<u>15</u>
Ladino	<u>5</u>
RYE on Banks	<u>20</u>
	<u>5 lbs/acs</u>

Area II	
Seed Type	lbs/acre

### Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet

RECEIVED  
Office of Oil & Gas  
Permitting

JUN 01 1999

WV Division of  
Environmental Protection

47-087-04253

Plan Approved by:

Ph. H. Dougherty

Title:

District Inspector

Field Reviewed?

Yes

Date:

5/25/99

No

Instructions to Surface Owners (cont.)

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas  
Division of Environmental Protection  
#10 McJunkin Road  
Nitro, West Virginia 25143  
(304)-759-0514

OR (District Oil and Gas Inspector  
(Name and address listed on obverse  
side of this notice)

Time limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address, and telephone number (if you have a telephone), the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons;
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW-2A, and attachments consisting of pages 1 through \_\_\_\_\_ including a work order on Form WW-2B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by natural person)

Robert G. Cook Date \_\_\_\_\_  
(Signature)

(For execution by corporation, etc.)

Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_  
Date \_\_\_\_\_

(Signature)

RECEIVED  
Office of Oil & Gas  
Permitting

JUN 01 1999

WV Division of  
Environmental Protection

47-087-04253

1) Date MAY 20, 1999  
2) Operator's well number  
HOPKINS

3) API Well No: 47 -

4) State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator:

(a) Name HOBERT COOK

Address LOONEYVILLE WV

Name NONE

Address \_\_\_\_\_

(b) Name \_\_\_\_\_

Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration

Name \_\_\_\_\_

Address \_\_\_\_\_

(c) Name \_\_\_\_\_

Address \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

6) Inspector HOMER DOUGHERTY (c) Coal Lessee with Declaration

Address LINDEN RT

Name \_\_\_\_\_

LOONEYVILLE, WV

Address \_\_\_\_\_

Telephone (304)- 927-4591

\_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

xx Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

xx Personal Service (Affidavit attached)

xx Certified Mail (Postmarked postal receipt attached)

xx Publication (Notice of Publication attached)

INSTRUCTIONS TO SURFACE OWNERS NAMED ABOVE

(Continued on Reverse)

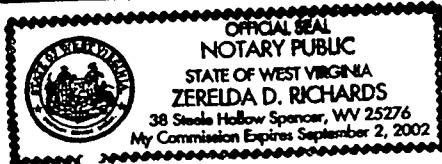
The well operator named below is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months.

Well Operator BNG PRODUCING & DRILLING INC.  
By: JEFFERY C. BOGGS  
Its: MANAGER  
Address P.O. BOX 148  
SPENCER, WV 25276  
Telephone 304-927-1236

Subscribed and sworn before me this 31 day of May, 1999

Notary Public

My commission expires Sept 2, 2002



## **SURFACE OWNER WAIVER**

### County

Hoare

## Operator

Operator well number

BNG Producing Inc

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas  
Division of Environmental Protection  
1356 Hansford Street  
Charleston, Wv 25301  
(304) 558-6342

OR District Oil and Gas Inspector  
(Name and address listed on page WW2-A)

hand Application of pit fluids From flow back  
est water frac.

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons;  
2) The soil erosion and sediment control plan is not adequate or effective;  
3) Damage would occur to publicly owned lands or resources;  
4) The proposed well work fails to protect fresh water sources or supplies;  
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**List of Water Testing Laboratories.** The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

## **VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_\_ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

~~FOR EXECUTION BY A NATURAL PERSON~~

FOR EXECUTION BY A CORPORATION, ETC.

*Paul D. Dugay*  
Signature

Date 10-29-01 Name

Name  
By  
Its

Date \_\_\_\_\_

Signature

**BNG PRODUCING & DRILLING INC.**  
**P.O. BOX 148**  
**882 CHARLESTON ROAD**  
**SPENCER, WV 25276**  
**304-927-1236**

**February 28, 2000**

**BRETT LOFLIN  
WVDEP  
OFFICE OF OIL AND GAS  
#10 MCJUNKIN ROAD  
NITRO, WV 25143**

**Dear Brett:**

4253  
4523 **This letter is in regard to the deep well we are currently drilling permit number 087-  
Hoffs #1.**

**We want to reserve the drilling rights for all formations below the Onandaga to the  
Basement which includes depths of 14,000 +.**

**Please amend the permit to include all of these depths and formations.**

**Sincerely,**

  
**Jeffery C. Boggs**

**BNG PRODUCING & DRILLING INC.**  
**P.O. BOX 148**  
**882 CHARLESTON ROAD**  
**SPENCER, WV 25276**  
**304-927-1236**

47-087-04253

**CERTIFICATE OF CONSENT AND EASMENT**

We, the undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Smithfield District, Roane County, State of West Virginia, shown on the attached plat or survey, and recorded in Book 241 Page 39 at the Roane County Courthouse, do hereby consent and grant an easement, pursuant to West Virginia Code, Section 22-4A-7 (b)(4) and Operating Rule 3.04 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to BNG Producing and Drilling Inc., Its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

BNG Producing and Drilling Inc. hereby grants the above surface owner free gas for residential use for one dwelling located on the above described tract. The free gas right shall begin this date and continue until such time as any well or gas line is no longer contained on said tract.

Further, BNG Producing and Drilling Inc., shall abide by the items contained in the drilling and reclamation plan attached to the application for drilling permit for the well to be drilled on the above described tract. The above named surface owner shall participate in the developing of such plan and both parties shall agree to the items contained in such plan.

Agreed and Executed this 21 day of May, 1999

*Robert G. Cook*

Robert Cook

*Jeffery C. Boggs*

Jeffery C. Boggs-Secretary BNG Producing & Drilling Inc.

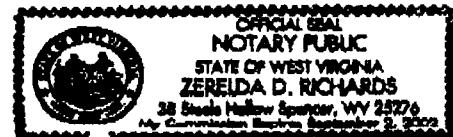
STATE OF West Virginia,  
County of Roane

Taken, subscribed and sworn to before me this 28th day of May, 1999

Notary Public *Jeffrey C. Boggs*

My commission expires: *Sept. 3, 2002*

This instrument prepared by  
Jeffery C. Boggs  
P.O. Box 148  
Spencer, WV 25276



CHECK LIST FOR FILING A PERMIT

BMY Producing  
6455  
470870 4253

I. New Drill

- WW-2B
- WW-2A
- Surface Owner Wavier *consent*
- Coal Owner/Lessee/Operator Wavier
- WW-2A (1)
- WW-2B (1) (If there are sources to be tested - we need names, addresses and location on topo listed as water testing) *testing two location*
- WW-9 (front and back)
- Inspector Signature *3/25/99*
- Reclamation Plan
- Mylar Plat
- Topography Map
- Certified Mail Receipts or affidavit of personal service
- Bond *single*

II. Re-Work or Frac Permit

- WW-2B
- WW-2A
- Surface Owner Wavier
- Coal Owner/Lessee/Operator Wavier
- WW-2A (1)
- WW-9 (front and back)
- Inspector Signature
- Reclamation Plan
- Mylar Plat (not older than 10 years)
- Topography Map
- Certified Mail Receipts or affidavit of personal service
- Completion/Well Records of previous work
- Bond

III. Plugging Permit

- WW-4B
- WW-4A
- Surface Owner Wavier
- Coal Owner/Operator/Lessee Wavier
- WW-9 (front and back)
- Inspectors Signature
- Reclamation Plan
- Mylar Plat (not older than 10 years)
- Well Records/Completion report
- Topography Map
- Certified Mail Receipts or affidavit of personal service
- Bond

*Al Blankenship*

333 West Vine Street, Suite 1201  
Lexington, Kentucky 40507  
Telephone (859) 225-8700

101 South Queen Street  
Martinsburg, West Virginia 25401  
Telephone (304) 263-0836

7000 Hampton Center, Suite K  
Morgantown, West Virginia 26505  
Telephone (304) 285-2500

Charles B. Dollison  
Telephone — (304) 347-1731  
Facsimile — (304) 343-2867

# Bowles Rice McDavid Graff & Love PLLC

ATTORNEYS AT LAW

600 Quarrier Street  
Charleston, West Virginia 25301

Post Office Box 1386  
Charleston, West Virginia 25325-1386  
Telephone (304) 347-1100  
[www.bowlesrice.com](http://www.bowlesrice.com)

5<sup>th</sup> Floor, United Square  
501 Avery Street  
Parkersburg, West Virginia 26101  
Telephone (304) 485-8500

3 West Piccadilly Street  
Winchester, Virginia 22601  
Telephone (540) 723-8877

E-mail Address:  
[cdolliso@bowlesrice.com](mailto:cdolliso@bowlesrice.com)

January 15, 2003

*lost*

West Virginia Office of Oil & Gas  
10 McJunkin Road  
Nitro, West Virginia 25213

Re: Freedom of Information Act Request

Gentlemen:

Thank you for the prior information you furnished me. Your assistance is greatly appreciated. This letter is a request for inspection and copying your entire file with regard to the following well:

1. The Hoff No. 1 Well, API No. 47-8704253.

Please contact me as soon as possible so that we may inspect and copy the above documents.

Very truly yours,

*Charles B. Dollison*

Charles B. Dollison

CBD/kw

1093483.1



## CT&amp;E Environmental Services Inc.

Laboratory Division

## Laboratory Analysis Report

MARTIN TWIST ENERGY

CT&amp;E Laboratory Delivery Group Number: TA1-J0-P811 Page 1

DATE: 11/01/01

DOC: 012505

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in an attached case narrative. Release of the data contained in the hard copy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

A case narrative is not required.

<u>Reference</u>	<u>Sample Description</u>	<u>Sampled</u>	<u>Laboratory Number</u>
1,2,3	GRAB	10/30/2001	TA1-J0-P811-001

Submitted by,

Denise L. Holcomb

Project Manager

# CHAIN OF CUSTODY RECORD

CT&E Environmental Services Inc.  
Laboratory Division

Locations Nationwide  
• Alaska • Louisiana  
• Maryland • Michigan  
• New Jersey • West Virginia  
www.cteesi.com

012505

1 CLIENT: MARTIN TWIST ENERGY  
CONTACT: LONNY ARMSTRONG PHONE NO: (304) 387 3838  
PROJECT: Hg SITE:  
REPORTS TO: LONNY ARMSTRONG  
2644 CONNER DR FAX NO: (304) 345-3394  
INVOICE TO: Charleston, WV 25302  
P.O. NUMBER:

		CT&E Reference:		TAI-30-P811-001										PAGE 1 OF 1	
No.	CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	Preservatives Used Analysis Required ③	TESTS										REMARKS	
				PH	TDS	Chloride	MBA5	Total Iron	Ferrous						
1	1	G <sub>2</sub>	X	X	X	X									
1	2	G <sub>1</sub>				X									
1	3	G <sub>2</sub>						X							

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	RECEIVED BY:	SHIPPING CARRIER:	SAMPLES RECEIVED COLD? (Circle) YES NO
1	1	10-30-01	3:00pm	H <sub>2</sub> O			
1	2	10-30-01	3:00pm	H <sub>2</sub> O			
1	3	10-30-01	3:00	H <sub>2</sub> O			

3

COLLECTED/RELINQUISHED BY: (1)	DATE	TIME	RECEIVED BY:	SHIPPING CARRIER:	SAMPLES RECEIVED COLD? (Circle) YES NO
LONNY ARMSTRONG	10/30/01	3pm			
RELINQUISHED BY: (2)	DATE	TIME	RECEIVED BY:	SHIPPING TICKET NO: Client	TEMPERATURE °C: 19 . 6
RELINQUISHED BY: (3)	DATE	TIME	RECEIVED BY:	SP. DELIVERABLE REQUIREMENTS:	CHAIN OF CUSTODY SEAL: (Circle)
					INTACT      BROKEN      ABSENT
RELINQUISHED BY: (4)	DATE	TIME	RECEIVED FOR LABORATORY BY:	REQUESTED TURNAROUND TIME AND SPECIAL INSTRUCTIONS:	
	10/30/01	3pm	Derrick Sault	24hr	

**CT&E Environmental Services Inc.**  
**Laboratory Division: Charleston Laboratory**

Lonny Armstrong  
 MARTIN TWIST ENERGY

Laboratory Number TA1-JD-P811-C01

Page 1

1,2,3  
 GRAB

COC 012505  
 Date Sampled 10/30/01 15:00  
 Date Received 10/30/01 18:00

Type F Matrix WATER  
 Sampled by CLIENT

110101 1458 Ver. 4.0.192

## ANALYSIS FOR REQUESTED PARAMETERS

Analyzed Parameter	CAS No.	Result	Eqg R/Limit	Units	S Method	Date/Time/Anal	DilF
IRON, TOTAL	7439-89-6	3.2	0.050	mg/L	EPA200.7	10/31/01 21:34 JWW	1.0
pH		7.72		S.U.	EPA150.1	10/31/01 14:45 TF	1.0
Total Dissolved Solids		310	5.0	mg/L	EPA160.1	10/31/01 16:30 MHS	1.0
Chloride		54	5.0	mg/L	EPA325.2	10/31/01 11:26 bfp	1.0
Surfactants / Detergents (MBAS)		0.14	0.030	mg/L	EPA425.1	10/31/01 11:30 MHS	1.0
Fecal Coliform (Membrane Filter)		4000	1000	C/100	SM9222D	10/31/01 08:45 MHS	500