



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, November 25, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

HAMPSHIRE GAS COMPANY
114 HAMPSHIRE GAS DRIVE

ROMNEY, WV 267570000

Re: Permit approval for 8
47-027-00014-00-00

This well work permit 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 any additional specific 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 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, 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.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 8
Farm Name: HEARE, L. H.
U.S. WELL NUMBER: 47-027-00014-00-00
Vertical Plugging
Date Issued: 11/25/2020

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date 8 October, 2020
2) Operator's
Well No. 8
3) API Well No. 47-027 - 00014

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___/ Gas x/ Liquid injection ___/ Waste disposal ___/
(If "Gas, Production ___ or Underground storage ___) Deep ___/ Shallow X

5) Location: Elevation 883.2 Watershed Cacapon
District Gore County Hampshire Quadrangle Hanging Rock

6) Well Operator Hampshire Gas Company 7) Designated Agent _____
Address 114 Hampshire Gas Dr Address _____
Romney WV 26757

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gayne J Knitowski Name Cudd Well Control
Address P.O. Box 108 Gormanian WV 26720 Address 2828 Technology Forest Blvd
304-546-8171 The Woodlands, TX

10) Work Order: The work order for the manner of plugging this well is as follows:
see attached procedures

RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne Knitowski Digitally signed by Gayne Knitowski Date: 2020.10.28 14:56:50 -0400 Date _____

HAMPSHIRE GAS COMPANY WELL NO. 8

Mrs. L. H. Heare
 Hampshire Gas Company
 Gore District
 Hampshire County
 250 Acres
 Elevation: 883
 Location: 2.05 mi. W 78°35', 3.61 mi. S 39°25'
 Drilling Commenced: June 20, 1964
 Drilling Completed: September 10, 1964
 Contractor: LuRay Land, Inc.
 Rig: National T-20

Casing & Cementing

<u>Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Casing Pt.</u>	<u>Cmt. to Surface</u>
13-3/8	H-40	48	51	"A"
9-5/8	H-40	32.3	1305	"A" & Lite Poz II

Shale, Siltstone & Sandstone	0	4298	Fresh Water 44, 61, 155, 330, 1280
Possible 1st Marcellus	4298	4905	
1st Metabentonite	4905	4905	
1st Needmore Shale	4905	?	
Lime & Shale	4905	5525	Show of Gas 5511
Last Needmore Shale	5525	5690	
Oriskany Sandstone	5690	5930	

Initial Open Flow - Show of gas in shale; Oriskany dry
 Well Not Stimulated
 Well Plugged & Abandoned September 10, 1964, in accordance with State Law

No. of Bit Runs - 29
 Total Rotating Hours - Record Incomplete

Logs Run

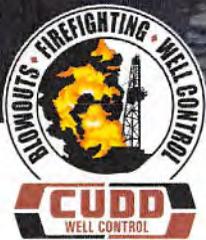
Sample (Geo-Log)	92	T.D.
Sample (Ball Assoc.)	3980	T.D.
Sample (Doug Preble)	4150	5700
Density Log - Caliper	5000	5919
Induction Log	4000	5914
Gamma Ray - Neutron	0	T.D.
Temperature	4100	5688
Dipmeter & Directional	1305	5685
Drilling Time Log	60	T.D.

Departure of Oriskany Contact from Surface Location: 395.81 N
 406.78 W

RECEIVED
 Office of Oil and Gas
 OCT 29 2020
 WV Department of
 Environmental Protection

P & A PROCEDURE

PREPARED FOR: Varun Mathuria, P.E., PMP



Document Prepared by: Bhavesh Ranka, P.E.

Company Name: Cudd Well Control

Job Title: Operations Manager

CUDD WELL CONTROL

2828 Technology Forest Blvd,
The Woodlands, Texas 77381
Fax: 1.713.849.3861

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

Hampshire Gas

P and A Procedure

Well # 8

Contacts			
Varun Mathuria, P.E., PMP	P&A Project Manager	Hampshire Gas	571-459-0260
Bhavesh Ranka	Operations Manager	CWC	281-381-9149
Rusty Jones	Sr. Well Control Specialist	CWC	832-314-6910

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection



INTRODUCTION

Cudd Well Control (CWC) was contacted by Hampshire Gas to assist with P and A operations on the well # 8. As part of the P and A process, hot taps are required to check for pressures before removing casing and adding a wellhead. The following is the draft procedure based on the current well conditions.

EQUIPMENT REQUIREMENT

The well control operations require a lot of specialized equipment. CWC will provide the following units;

- Hot Tap Unit
- Pneumatic hacksaw
- Porta Lathe casing cutter
- Coiled Tubing Unit
- Cement unit

HOT TAP PROCEDURE

- Hot tap of 9-5/8" casing
 1. Install 9-5/8" hot tap saddle
 2. Install an 2" x 1" plug valve and hot-tap unit
 3. Pressure test hot tap unit against surface to be tapped
 - Pressure test to 500 psi over estimated trapped pressure
 4. With plug valve open, run in and tag casing
 5. Mark polish rod to specified wall thickness of location to be tapped
 6. Clear non-critical personnel
 7. Pressure up on hot tap unit to 500 psi over estimated trapped pressure
 8. Tap casing plate using 9/16" drill bit
 9. Confirm tap with visual markings and measurements
 10. Back out bit
 11. Release any pressure if present
 12. Rig down hot tap unit

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

INSTALL CASING HEAD

1. Peel off 13-3/8" casing.
2. Cut the 9-5/8" casing 5' below the top. This will ensure the 7" casing (monument) is removed as well.
3. Weld a collar and 9-5/8" casing on top of the existing casing to bring it up to ground level.
4. Final cut the surface casing at the correct elevation to accommodate the balance of the well-head equipment and BOP stack. Grind the surface casing stub level and place an 1/8" x 45° bevel on the O.D. of the stub
5. Examine the Slip-On and Weld Bottom Casing Head: Verify the following:



RECOMMENDED PROCEDURE FOR WELDING PIPE TO WELLHEAD PARTS FOR PRESSURE SEAL

1. Introduction and Scope. The following recommended procedure has been prepared with regard to attaining pressure-tight weld when attaching casing heads, flanges, etc., to casing. Although most of the high strength casing used (such as N-80) is not normally considered field weldable, some success may be obtained by using the following or similar procedures
 - Caution: In some wellheads, the seal weld is also a structural weld and can be subjected to high tensile stresses. Consideration must therefore be given by competent authority to the mechanical properties of the weld and its heat affected zone
 - The steels used in wellhead parts and in casing are high strength steels that are susceptible to cracking when welded. It is imperative that the finished weld and adjacent metal be free from cracks. The heat from welding also affects the mechanical properties. This is especially serious if the weld is subjected to service tension stresses
 - This procedure is offered only as a recommendation. The responsibility for welding lies with the user and results are largely governed by the welder's skill. Weldability of the several makes, and grades of casing varies widely, thus placing added responsibility on the welder. Transporting a qualified welder to the job, rather than using a less-skilled man who may be at hand, will, in most cases, prove economical. The responsible operating representative should ascertain the welder's qualifications and, if necessary, assure himself by instruction or demonstration, that the welder is able to perform the work satisfactorily
2. Welding Conditions. Unfavorable welding conditions must be avoided or minimized in every way possible, as even the most skilled welder cannot successfully weld steels that are susceptible to cracking under adverse working conditions, or when the work is rushed. Work above the welder of any kind should be avoided. The weld should be protected from dripping mud, water, and oil and from wind, rain, or other adverse weather conditions. It is the responsibility of the user to provide supervision that will assure favorable working conditions, adequate time, and the necessary cooperation of the rig personnel
3. Welding. The welding should be done by the shielded metal-arc or other approved process.
4. Filler Metal. The root pass can be made either with an E6010 or E7018 electrode. E6010 electrodes offer good penetration and weld deposit ductility but have a relatively high intrinsic hydrogen content. Low-hydrogen E7018 electrodes are less

RECEIVED
Office of Oil and Gas

OCT 29 2020

MDA Department of
Environmental Protection

susceptible to hydrogen-induced root cracking. After the root pass, low hydrogen electrodes or filler wires of a yield strength equal to the casing yield strength should be used. The low hydrogen electrodes include classes EXX15, EXX16, EXX18, EXX28 of AWS A5.1 (latest edition): Mild Steel Covered Arc- Welding Electrodes* and AWS A5.5 (latest edition): Low-Alloy Steel Covered Arc-Welding Electrodes*. Low hydrogen electrodes should not be exposed to the atmosphere until ready for use. Electrodes exposed to atmosphere should be dried 1 to 2 hours at 500 to 600°F (260 to 316°C) just before use

5. Preparation of Base Metal. The area to be welded should be dry and free of any paint, grease, scale, rust or dirt
6. Preheating. Both the casing and the wellhead member should be preheated to 200 to 300°F (93 to 149°C) for a distance of at least 3 inches (76.2 mm) on either side of the weld location, using a suitable preheating torch. Before applying preheat, the fluid should be bailed out of the casing to a point several inches (mm) below the weld location. The preheat temperature should be checked by the use of heat sensitive crayons. Special attention must be given to preheating the thick sections of wellhead parts to be welded, to insure uniform heating and expansion with respect to the relatively thin casing.
7. Welding Technique. Use a 1/8 or 5/32-inch (3.2 or 4.0 mm) E6010 or E7018 electrode and step weld the first bead (root pass); that, weld approximately 2 to 4 inches (50 to 100 mm) and then move diametrically opposite this point and weld 2 to 4 inches (50 to 100 mm) halfway between the first two welds, move diametrically opposite this weld, and so on until the first pass is completed. This second pass should be made with a 5/ 32-inch (4.0 mm) low hydrogen electrode of the proper strength and may be continuous. The balance of the welding groove may then be filled with continuous passes without back stepping or lacing, using a 3/16-inch (4.8 mm) low hydrogen electrode. All beads should be stringer beads with good penetration. There should be no undercutting and weld shall be workmanlike in appearance.
8. Test ports should be open when welding is performed to prevent pressure buildup within the test cavity
9. During welding the temperature of the base metal on either side of the weld should be maintained at 200 to 300°F (93 to 149°C)
10. Care should be taken to ensure that the welding cable is properly grounded to the casing, but ground wire should not be welded to the casing or the wellhead. Ground wire should be firmly clamped to the casing, the wellhead, or fixed in position between pipe slips. Bad contact may cause sparking, with resultant hard spots beneath which incipient cracks may develop.
11. Cleaning. All slag or flux remaining on any welding bead should be removed before laying the next bead. This also applies to the completed weld



12. Defects. Any cracks or blow holes that appear on any bead should be removed to sound metal by chipping or grinding before depositing the next bead
13. Post heating. To prevent damage to packing a temperature of 275°F (135°C) to 300°F (149°C) for no less than one hour followed by a slow cool is a minimum requirement
14. Cooling. Rapid cooling must be avoided. To assure slow cooling, welds should be protected from extreme weather conditions (cold, rain, high winds, etc.) by the use of suitable insulating material. (Specially designed insulating blankets are available at many welding supply stores.) Particular attention should be given to maintaining uniform cooling of the thick sections of the wellhead parts and the relatively thin casing, as the relatively thin casing will pull away from the head or hanger if allowed to cool more rapidly. The welds should cool in air to less than 200°F (93°C) (measured with a heat sensitive crayon) prior to permitting the mud to rise in the casing
15. Test the Weld. After cooling, test the weld. The weld must be cool otherwise the test media will crack the weld. The test pressure should be no more than 80% of the casing collapse pressure

P & A PROCEDURE

The following is the P & A procedure:

1. Once the wellhead has been installed and tested, rig up coiled tubing BOPs and associated equipment. Note: The wellhead flange will be untested.
2. Rig up coiled tubing, flowback tank, manifold, etc
3. Pressure test well control equipment
4. Run to bottom cleaning out cement plugs.
5. Tag bottom at 5,678'.
6. RU wireline and run a noise/temp log.
7. Pump cement, set a balanced plug. The complete hole will be fill with cement. Cement plugs will be set in 500' intervals. After pumping cement and waiting for appropriate time, cement will be tagged before pumping the next plug.
8. Once the well is plugged as per regulatory requirements, rig down coiled tubing.
9. Cut 9-5/8" casing and place a marker.

Note 1: Depending on the numbers calculated by modeling, CWC may use a Hydraulic Workover Unit instead of the coiled tubing unit.

Note 2: As per the drilling report, 9-5/8" casing is cemented to surface. This will be verified and confirmed by running a cement bond log. If confirmed, no attempt will be made to pull the casing.

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of Environmental Protection

Comments, observations and suggestions contained herein have been made based on the documents we have been provided and in accordance with review criteria as explained herein. While we strive to provide useful information based on our experience and good industry practices, our opinions expressed herein are in no way to be interpreted as a guarantee or warranty in any manner whatsoever. As such, neither Cudd Pressure Control nor its Well Control Division, nor any of its or their officers, employees or agents shall be responsible or liable in negligence or otherwise to any party in respect of any inaccuracy, omission or recommendation contained herein.

027-14

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES,
Charleston, W. Va.

_____	Hampshire Gas Company
COAL OPERATOR OR COAL OWNER	NAME OF WELL OPERATOR
_____	1100 H St., N. W., Washington, D. C. 20005
ADDRESS	COMPLETE ADDRESS
_____	June 3, 1964
COAL OPERATOR OR COAL OWNER	PROPOSED LOCATION
_____	Gore District
ADDRESS	Hampshire County
OWNER OF MINERAL RIGHTS	Well No. Hampshire Gas Company #8 39025 76035
_____	Mrs. L. H. Hearse Farm
ADDRESS	Elw. 983.2 Area - 280

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated November 8, 1961 made by Mrs. L. H. Hearse to Joyce Pipe Line Company (assigned to Hampshire Gas Co.) and recorded on the 15th day of January, 1962 in the office of the County Clerk for said County in Book 153, page 9.

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points, or land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped their workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by, or filed with the Department of Mines within ten days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that all such objections must set forth as definitely as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, Hampshire Gas Company

Arroy L. Statham
WELL OPERATOR
1100 H Street, Northwest
WASHINGTON, D. C. 20005
CITY OR TOWN



Address of Well Operator

RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of Environmental Protection

*Section 3 If no such objections be filed or be found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

BLANKET BOARD

HAMP-14 Permit Number



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 13

Rotary
Spudder
Cable Tools
Storage

Quadrangle Hanging Rock

WELL RECORD

Oil or Gas Well Dry Hole

Permit No. 114

Company Hampshire Gas Company
Address 1100 H St., N. W., Washington, D.C. 20005
F. rm Mrs. L. H. Hoare Acres 250?
Location (waters) _____
Well No. 8 Elev. 883.2'
District Gore County Hampshire
The surface of tract is owned in fee by Mrs. L. H. Hoare
Rt. 1, Box 21, Three Churches, West Virginia
Address _____
Mineral rights are owned by Mrs. L. H. Hoare
Rt. 1, Box 21, Three Churches, West Virginia
Address _____
Drilling commenced June 20, 1964
Drilling completed September 10, 1964
Late Shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
Dry Hole /10ths Merc. in _____ Inch
Volume Dry Hole Cu. Ft. _____
Rock Pressure _____ lbs. _____ hrs.
Oil _____ hbls. _____ 24 hrs.
WELL ACIDIZED No

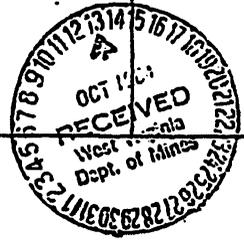
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
<u>13-3/8</u>	<u>51</u>	<u>51</u>	
<u>9-5/8</u>	<u>1305</u>	<u>1305</u>	Size of
8 1/4			
6 3/4			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 13-3/8" SIZE 51' No. Ft. 6/22/64 Date
9-5/8" - 1305' - 7/11/64
COAL WAS ENCOUNTERED AT None FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED No
RESULT AFTER TREATMENT _____
ROCK PRESSURE AFTER TREATMENT _____
Fresh Water Yes Feet 611, 155' Salt Water No Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil and Clay			0	40			
Sandstone			40	165	Water	44'	
Shale			65	130	Water	61'	
Sandstone			130	110			
Shale			110	153			
Sandstone			153	153	Water	155'	
Siltstone			190	280			
Shale w/sand			280	305			
Siltstone			305	355	Water	330'	
Shale w/sand			355	515			
Sandstone w/Shale			515	640			
Shale			640	735			
Sandstone			735	795			

(over)



RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of Environmental Protection

Formation	Color	Hard or Soft	Top 13	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sandstone			795	930			
w/Shale			930	1,185			
Shale			1,185	1,298	Water	1,280'	
Sandstone			1,298	1,450			
Sandy Shale			1,450	1,715			
Shale			1,715	1,740			
Siltstone w/Sand			1,740	1,865			
Shale			1,865	2,025			
Sandy Shale			2,025	2,100			
Shale			2,100	2,135			
Sandstone			2,135	2,165			
Shale			2,165	2,190			
Sandy, Limy Shale			2,190	2,362			
Shale			2,362	2,375		722'	
Sandstone			2,375	2,455			
Shale			2,455	2,545			
Siltstone w/Shale Strks			2,545	3,200			
Shale			3,200	3,410			
Siltstone			3,410	3,770			
Silty Shale			3,770	3,945			
Shale			3,945	4,073			
Siltstone w/Sand			4,073	4,080			
Shale			4,080	4,155			
Siltstone			4,155	4,160			
Shale			4,160	4,250			
Limy Shale			4,250	4,930			Onondaga - Needmore 1905
Shaley Lime			4,930	4,950			
Lime & Shale			4,950	5,230			
Limy Shale			5,230	5,315			
Lime			5,315	5,325			Onondaga - Needmore 5525
Limy Shale			5,325	5,690	Show of Gas	5,511'	
Oriskany Sandstone			5,690	5,740			
Shale			5,740	5,750			
Sandstone			5,750	5,930			

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

Date October 9, 1964

APPROVED Hampekin Gas Co. Owner

By A. J. Ketchum, Production Engineer
(Signature)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

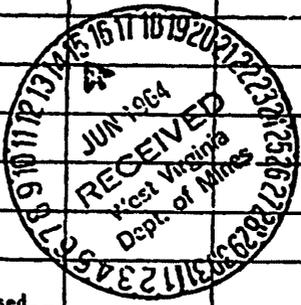
Rotary
Spudder
Cable Tools
Storage

INSPECTOR'S WELL REPORT

Permit No. Hamp. 14

Oil or Gas Well _____
(KIND)

Company <u>Hamphire Gas Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
1100 H. St. N.W.	Size			
Address <u>Washington, D.C. 20005</u>	16			Kind of Packer _____
Farm <u>Mrs. L. H. Heare</u>	13			Size of _____
Well No. <u>8</u>	10			Depth set _____
District <u>Gore</u> County <u>Hamp.</u>	8 1/2			Perf. top _____
Drilling commenced _____	6 3/16			Perf. bottom _____
Drilling complete _____ Total depth _____	3			Perf. top _____
Date shot _____ Depth of shot _____	2			Perf. bottom _____
Initial open flow _____ /10ths Water in _____ Inch	Liners Used			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch				Perf. bottom _____
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Stock pressure _____ lbs. _____ hrs.	NAME OF SERVICE COMPANY _____			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			



Drillers' Names _____

RECEIVED
Office of Oil and Gas

OCT 29 2020

Remarks:

I was on this location June 8, 1964. They ~~had~~ hadn't moved anything on it yet. I understand Pace Bowers is going to drill several wells for this co. They were supposed to be on location by June 12, 1964.

Department of Environmental Protection

June 8, 1964
DATE

Wm. E. S. ...
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

INSPECTOR'S WELL REPORT

Permit No. Hamp. 14

Oil or Gas Well _____
(KIND)

Company <u>Hampshire Gas Co.</u> <u>1100 H. St. N.W.</u> Address <u>Washington, D.C. 20005</u> Farm <u>Mrs. J. H. Heare</u> Well No. <u>8</u> District <u>Gore</u> County <u>Hamp.</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
	16			Kind of Packer _____
	13			
	10			Size of _____
	8 1/4			
	6 3/4			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
Liners Used			Perf. top _____ Perf. bottom _____	

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

OBSTRUCTION WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____ *gm*

Remarks: Rigging up. Getting ready to start. Pace Bowers is going to do this drilling for Hampshire Gas Co. I understand he has a contract to drill several wells.

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

June 18, 1964
DATE



Wm. E. Guernsey
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Rotary
Spudder
Cable Tools
Storage

Oil or Gas Well _____
(KIND)

Permit No. Hamp-14

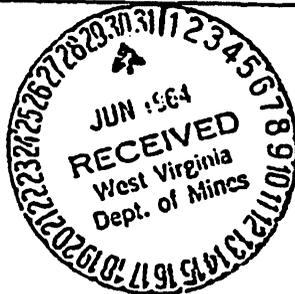
Company <u>Hampshire Gas Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>1100 H St. N.W. Washington, D.C. 20005</u>	Size			
Farm <u>Mrs. I. H. Heare</u>	16			Kind of Packer _____
Well No. <u>8</u>	13	<u>60 cemented</u>		
District <u>Gore</u> County <u>Hamp.</u>	10			Size of _____
Drilling commenced <u>June 19, 1964</u>	8 1/4			Depth set _____
Drilling completed _____ Total depth <u>290</u>	6 3/4			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Block pressure _____ lbs _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water <u>40</u> feet <u>175</u> feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Lyess-Whitmire

Face Bowers rig

Remarks:

Drilling Good



RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of Environmental Protection

June 22, 1964
DATE

Wm. E. Heermans
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

INSPECTOR'S WELL REPORT

Permit No. Hemp. 14

Oil or Gas Well _____
(KIND)

Company <u>Hampshire Gas Co.</u> Address <u>1100 H. St. N.W.</u> <u>Washington, D.C.</u> Farm <u>Mrs. I. H. Heane</u> Well No. <u>8</u> District <u>Gore</u> County <u>Hemp.</u> Drilling commenced <u>6/10/64</u> Drilling completed <u> </u> depth <u>720</u> Date shot <u> </u> Depth of shot <u> </u> Initial open flow <u> </u> /10ths Water in <u> </u> Inch Open flow after tubing <u> </u> /10ths Merc. in <u> </u> Inch Volume <u> </u> Cu. Ft. Rock pressure <u> </u> lbs. <u> </u> hrs. Oil <u> </u> bbls., 1st 24 hrs. Fresh water <u>40</u> feet <u>175</u> feet Salt water <u> </u> feet <u> </u> feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer
	16			
	13	60 cemented		
	10			Size of
	8 1/2			Depth set
	6 3/8			
	5 3/16			Perf. top
	3			Perf. bottom
	2			
Liners Used				Perf. top
				Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
NAME OF SERVICE COMPANY _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Imnos - Initiative

Remarks: Page covers this

They are getting a crooked hole ✓



RECEIVED Office of Oil and Gas

OCT 29 2020

WV Department of Environmental Protection

June 30, 1964

DATE

Paul Kaurwalt

DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

INSPECTOR'S WELL REPORT

Permit No. Hemp-14

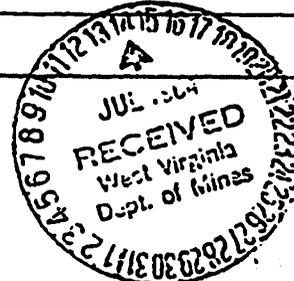
Oil or Gas Well _____
(KIND)

Company <u>Hempshire Gas Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKER'S
Address <u>1100 H. St. N.W. Washington, D.C.</u>	Size			
Farm <u>Mrs. I. H. Heare</u>	16			Kind of Packer
Well No. <u>8</u>	13	<u>60 cemented</u>		
District <u>Gore</u> County <u>Hemp</u>	10			Size of
Drilling commenced <u>6/10/64</u>	8 1/4			Depth set
Drilling completed <u>7nd depth 1050</u>	6 3/8			
Date shot _____ Depth of shot _____	3			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top
Volume _____ Cu. Ft.				Perf. bottom
Block pressure _____ lbs _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water <u>40</u> feet <u>175</u> feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Lynos-Waitmire

Pace Bowers rig

Remarks:



RECEIVED
Office of Oil and Gas
OCT 29 2020

WV Department of
Environmental Protection

July 8, 1964
DATE

Wm. C. Givens
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well _____
(KIND)

INSPECTOR'S WELL REPORT

Permit No. Hamp. 14

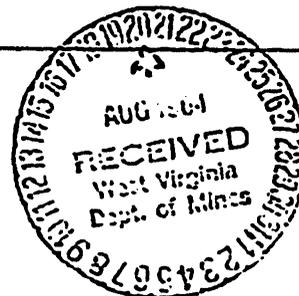
Company <u>Hempshire Gas Co.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>1100 H St. N.W. Washington, D.C.</u>	Size			
Farm <u>Mrs. J. H. Heare</u>	16			Kind of Packer _____
Well No. <u>8</u>	13	80		
District <u>Gore</u> County <u>Hamp.</u>	12 <u>9 5/8</u>	1310		Size of _____
Drilling commenced <u>6/19/64</u>	8 1/4			
Drilling completed _____ depth <u>3365</u>	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Block pressure _____ lbs _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Whitmire-Lynos-Weaver

Pace Bowers rig

Remarks:

Hole full of water until cased
Tight hole



RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

Aug. 12, 1964
DATE

W. S. Brunwall
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

INSPECTOR'S WELL REPORT

Permit No. Hamp 14

Oil or Gas Well _____
(KIND)

Company <u>Hamshire Gas Co.</u> <u>1100 H St. N.W.</u> Address <u>Washington, D.C.</u> Farm <u>Mrs. L. H. Heare</u> Well No. <u>8</u> District <u>Gore</u> County <u>Hamp.</u> Drilling commenced <u>6/10/64</u> Drilling completed _____ Total depth <u>5236</u> Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Stock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
	16			Kind of Packer _____
	13	80		
	9 5/8	1310		Size of _____
	8 1/4			
	6 3/8			Depth set _____
	6 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
Liners Used			Perf. top _____	
			Perf. bottom _____	

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

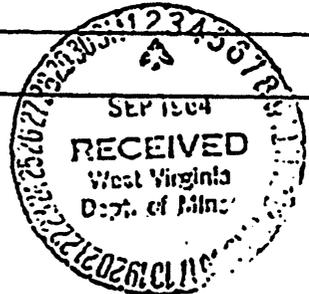
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Witmore-Lyons-Kuever

Remarks: Race Bowers rig



RECEIVED Office of Oil and Gas

OCT 29 2020

WV Department of Environmental Protection

Aug 27 1964
DATE

Wm. S. Burnett
DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF INTENTION TO PLUG AND ABANDON WELL

(REQUIRED BY SECTION 9, ARTICLE 4, CHAPTER 22 OF THE CODE)

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Coal Operator	<u>Hampshire Gas Company</u>	Name of Well Operator
Address	<u>1100 H Street, N.W. - Washington, D. C.</u>	Complete Address
Coal Owner	<u>September 7, 1964</u>	Date
Address	<u>Gore</u>	District
Lease or Property Owner	<u>Hampshire</u>	County
Address	<u>Well No. Hampshire Gas Company #8</u>	
	<u>L. H. Heare</u>	Farm
Inspector to be notified <u>Wm. E. Greenwalt</u>	City <u>Morefield</u>	Telephone <u>LE 8-6221</u>

Gentlemen:— 24 HOURS IN ADVANCE OF PLUGGING

The undersigned well operator is about to abandon the above described well and will commence

the work of plugging and abandoning said well on the date inspector is notified (which date shall not be less than five days after the day on which this notice so mailed is received, or in due course should be received by the Department of Mines).

This notice is given you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not represented the undersigned will proceed on that date, or shortly thereafter, to plug and fill said well in the manner required by Section 10, Article 4, Chapter 22 of the Code and given in detail on the reverse side of this notice, in "Work Order."

This notice is being mailed by registered mail to each of you at the above addresses on the above date.



Very truly yours, Hampshire Gas Company

Harry L. Getcham
Well Operator

NOTE: Upon the abandonment of any well drilled prior to June 1, 1929, a plat prepared by a registered engineer, shall be filed with THREE COPIES OF APPLICATION, (OG-9) AND "WORK ORDER" AND TWO COPIES OF THE WELL RECORD, (OG-10). The map must show the district and county in which the tract of land is located, the name and acreage of same, the name or names of the owners and names of adjacent tracts and the location of the well to be abandoned, determined by survey with the courses and distances of such well from two permanent points or landmarks on said tract.

NOTE: In case plugging is not commenced within four months from the date of permit, same shall expire and be of no further force or effect.

NOTE: PERMIT IS NOT TRANSFERABLE.

HAMP-14-P

Permit Number

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

PROPOSED MANNER OF PLUGGING AND FILLING WELL
(REQUIRED BY RULES AND REGULATIONS)
WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION
WORK ORDER

Well to be plugged and filled as follows:

Total Depth - 5930'

Service Company will fill well with 6% bentonite mud with cement plugs at the following depths: 5678', 4950', 4750', 1320' and 10' below surface. Well will be marked with a permanent monument in accordance with Rule 12 of the Code of West Virginia, Chapter 22, Article 4.

All fresh water strata have been sealed by casing and cementing to surface.

To the Department of Mines
Coal Owner or Operator,
Lease or Property Owner.

Gentlemen:

This "work order" is submitted for your approval and concurrence and unless notified of your disapproval or non-concurrence, the undersigned will proceed with the plugging and filling of said well in the above described manner on the date inspector is notified after permit is issued.

Very truly yours, Hampshire Gas Company

[Signature]
Well Operator

No objections have been filed by the coal owner or coal operator, or any available adjacent lease or property owners or interposed by the Department of Mines to the manner herein described for the plugging and filling of the well above mentioned. Therefore, the same is hereby approved this

day of _____, 19____.

DEPARTMENT OF MINES
Oil and Gas Division

By: _____

NOTE: This "work order" shall be filed in triplicate, one copy for the files of the Department of Mines; one to be approved or corrected and returned to the well operator as his authority for plugging said well; and one for the well inspector.

RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of
Environmental Protection

FORM 00-2

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

COAL OPERATOR OR OWNER	<u>Hampshire Gas Company</u>	NAME OF WELL OPERATOR	
ADDRESS		COMPLETE ADDRESS	<u>1100 H Street, N. W., Washington, D.C. 20005</u>
COAL OPERATOR OR OWNER		WELL AND LOCATION	<u>September 10, 1964</u>
ADDRESS		District	<u>Gore</u>
LEASE OR PROPERTY OWNER		County	<u>Hampshire</u>
ADDRESS		Well No.	<u>8</u>
		Farm	<u>L. H. Heare</u>

STATE INSPECTOR SUPERVISING PLUGGING Wm. E. Greenwalt, Morefield, West Virginia

AFFIDAVIT

STATE OF WEST VIRGINIA,

County: (Hampshire) ss:

Harry W. Warner and C. A. Gaines
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Hampshire Gas Company well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 10th day of September, 1964, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			SIZE & RING	CGO PULLED / CGO LEFT IN
Oriskany	6% Gel Mud 5930 to 5688 - Plug 5688 to 5678	10' cement		1305'
Marcellus Shale	6% Gel Mud 5678 to 5550 - Plug 5550-5540	10' cement		
	6% Gel Mud 5540 to 5490 - Plug 5490-5480	10' cement		9-5/8" cemented
	6% Gel Mud 5480 to 4960 - Plug 4960 to 4950	10' cement		bottom to surface 1305'
	6% Gel Mud 4950 to 4760 - Plug 4760 to 4750	10' cement		13-3/8" cemented
Hamilton Form	6% Gel Mud 4750 to 1315 - Plug bottom surface pipe 1315 to 1295	20' cement		bottom to surface 51'
Top Surface Pipe	Plug 25' to 5'	20' cement		
COAL BEAMS	None		DESCRIPTION OF MONUMENT	
(NAME)			7" - 20# cement filled pipe	
(NAME)			from (-)2.5' to 12.5' - set in	
(NAME)			cement plug in top 9-5/8 casing	
(NAME)				

and that the work of plugging and filling said well was completed on the 10th day of September, 1964

And further deponents saith not.

Sworn to and subscribed before me this 15th day of September, 1964

My commission expires:
February 28, 1967

[Signature]
Notary Public.
Permit No. Hamp - 1h - P

RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of
Environmental Protection



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 5

MARIE BRIFFITH
EXECUTIVE SECRETARY

W. F. EISENHOD
DIRECTOR

GURNER WANOCK
DEPUTY DIRECTOR

October 2, 1954

Hampshire Gas Company
1100 H. Street N. W.
Washington, D. C.

Gentlemen:

In Re: Permit HAMP-14-P
Farm L. H. HEAYS
Well No. 8
District Gore
County Hampshire

Gentlemen:

The final inspection report for your well which is described above has been received in our office.

Please be advised that the well, which is covered by the above permit number, has been released under your Blanket Bond.

Yours very truly,

Gurmer Wanock
Deputy Director
OIL AND GAS DIVISION

52

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: 10/8/2020
2) Operator's Well Number
8
3) API Well No.: 47 - 027 - 00014

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

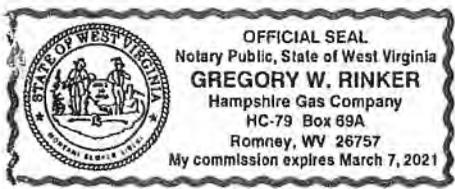
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name BRIAN T HEARE	Name _____
Address 21 PINEY MOUNTAIN RD ROMNEY WV 26757-7171	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector Gayne J Knitowski	(c) Coal Lessee with Declaration
Address P.O. Box 108 Gormanville WV 26720	Name _____
GAYNE.J.KNITOWSKI@WV.GOV	Address _____
Telephone 304-546-8171	Address _____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Hampshire Gas Company
 By: Clay Bean
 Its: Supervisor & Designated Agent for Hampshire Gas
 Address 114 Hampshire Gas Drive
 Romney, WV 26757
 Telephone (304) 822-5664

RECEIVED
Office of Oil and Gas
OCT 29 2020

WV Department of Environmental Protection

Subscribed and sworn before me this 26 day of October 2020
F Gregory W Rinker Notary Public
My Commission Expires March 7, 2021.

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

SURFACE OWNER WAIVER

Operator's Well
Number

8

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

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 **FIVE (5) 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.

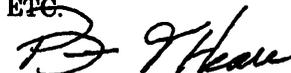
VOLUNTARY STATEMENT OF NO OBJECTION

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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
ETC.**

FOR EXECUTION BY A CORPORATION,



Signature

Date 10/27/2020 Name _____
By _____
Its _____

Signature Date

WW-4B

API No.	47-027-00014 P
Farm Name	L H Heare
Well No.	8

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____/ owner _____/ lessee _____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

WW-9
(5/16)

API Number 47 - 027 - 00014
Operator's Well No. 8

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Hampshire Gas Company OP Code 07050

Watershed (HUC 10) Cacapon Quadrangle HANGING ROCK

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: no pit - using a flowback tank only

Will a synthetic liner be used in the pit? Yes No If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Fresh water

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? NONE

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department 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 Clay C Bean

Company Official (Typed Name) Clay Bean

Company Official Title Designated Agent & Supervisor of Hampshire Gas

RECEIVED
Office of Oil and Gas

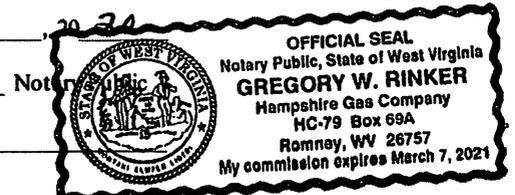
OCT 29 2020

WV Department of
Environmental Protection

Subscribed and sworn before me this 26 day of October

I, Gregory W Rinker

My commission expires March 7, 2021



Proposed Revegetation Treatment: Acres Disturbed < 1 ACRE Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Owner wants land left as-is

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: **Entrance road is to remain and the field to be restored as was found.**

gan

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection

Title: Gayne Knitowski
Digitally signed by Gayne Knitowski
Date: 2020.10.28 15:02:23 -04'00'

Date: _____

Field Reviewed? () Yes () No

N/A

WW-9- GPP
Rev. 5/16

Page 1 of 2
API Number 47 - 027 - 00014
Operator's Well No. 8

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN

Operator Name: Hampshire Gas Company
Watershed (HUC 10): Cacapon Quad: Hanging Rock
Farm Name: L H Heare

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

none, not applicable

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

using a flowback tank for any fresh water that is generated

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Little Cacapon River

4. Summarize all activities at your facility that are already regulated for groundwater protection.

none, not applicable

RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of
Environmental Protection

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

[Empty rectangular box]

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

none, not applicable

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

not applicable

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

not applicable

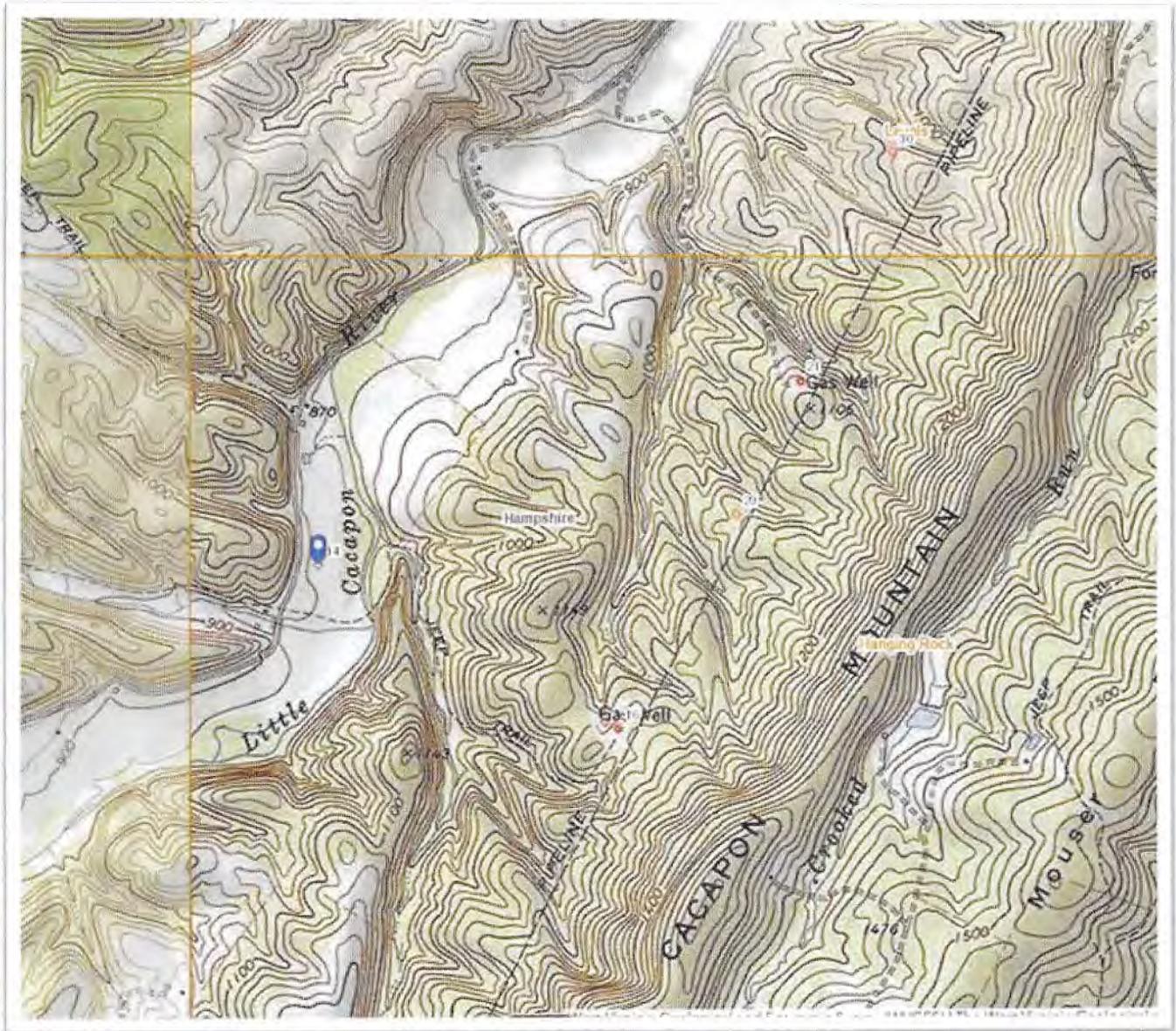
RECEIVED
Office of Oil and Gas
OCT 29 2020

Signature: Can Tucker

Date: 10/16/2020

WV Department of
Environmental Protection

Well Location Map 1



RECEIVED
Office of Oil and Gas
OCT 29 2020
WV Department of
Environmental Protection

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4702700014 WELL NO.: 8

FARM NAME: Mrs. L H Heare

RESPONSIBLE PARTY NAME: Hampshire Gas Company

COUNTY: Hampshire DISTRICT: Gore

QUADRANGLE: Hanging Rock

SURFACE OWNER: Brian T. Heare

ROYALTY OWNER: Brian T. Heare

UTM GPS NORTHING: 4359944.31, 39.364657 Lat

UTM GPS EASTING: 704970.97 UTM, -78.620778 Lon GPS ELEVATION: 883.2

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Case Jucker
Signature

Sr. EHS Specialist
Title

10/16/2020
Date

RECEIVED
Office of Oil and Gas

OCT 29 2020

WV Department of
Environmental Protection