



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

Tuesday, January 15, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

ROSS, MIKE INC.
POST OFFICE BOX 219

COALTON, WV 26257

Re: Permit approval for HAZEL QUEEN 1
47-001-00626-00-00

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: HAZEL QUEEN 1
Farm Name: QUEEN, HAZEL
U.S. WELL NUMBER: 47-001-00626-00-00
Vertical Plugging
Date Issued: 1/15/2019

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date August 29, ~~2018~~ 2018/8/2019
2) Operator's
Well No. Hazel Queen
3) API Well No. 47-001 - 00626

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 1263' Watershed Tanner's Run into Gnatty Creek
District Union County Barbour Quadrangle Brownton

6) Well Operator Mike Ross Inc. 7) Designated Agent Mike Ross
Address P.O. Box 219 Address P.O. Box 219
Coalton, WV 26257 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Kenneth Greynolds
Address 613 Broad Run Road
Jane Lew, WV 26378
9) Plugging Contractor Name N/A
Address _____

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

- Free point and recover casing's & tubular's
- 6% Gel between plug's
- Set cement plug 2400' to TD (2655') Plug 100' above top perf?
- Set 100' cement plug across casing cut
- Set 100' cement plug 1430' to 1530' (Lime, Blue Monday)
- Set cement plug 1000' to 1300' elevation (salt bearing strata) and 8 5/8th's
- Set cement plug 100' to surface, (freshwater protection plug and surface plug)
- Tag plug's as necessary, Set monument with API number

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

Work order approved by inspector *Kenneth L. Greynolds* Date 10-24-18

47-001-00626P

01/18/2019

OG-10
Rev. - 9-71



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MAY 24 1973

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary Oil _____
Cable _____ Gas c. no. _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Philippi

Permit No. Bar-626

Company <u>White Shield oil and Gas Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 2139, Tulsa, Oklahoma 74101</u>	Size 20-16			
Farm <u>Hazel Queen</u> Acres <u>117</u>	Cond. 13-10"			
Location (waters) <u>Tanner's Run into Gnatty Ck.</u>	9 5/8			
Well No. <u>Queen #1</u> Elev. <u>1263'</u>	8 5/8	<u>1059.11'</u>	<u>1059.11'</u>	
District <u>Union</u> County <u>Barbour</u>	7			
The surface of tract is owned in fee by <u>Hazel Queen</u>	5 1/2			
Address <u>Maede St., Buckhannon, W. Va.</u>	4 1/2	<u>2655.50'</u>	<u>2655.50'</u>	60 sxs.
Mineral rights are owned by <u>Hazel Queen</u>	3			
Address <u>same as above</u>	2			
Drilling Commenced <u>January 20, 1973</u>	Liners Used			
Drilling Completed <u>January 27, 1973</u>				
Initial open flow <u>200</u> cu. ft. _____ bbls.				
Final production <u>34,600</u> cu. ft. per day <u>12</u> bbls.				
Well open <u>72,000</u> hrs. before test <u>1,020</u> RP.				

Well treatment details:

Attach copy of cementing record.

5th Sand - frac'd w/655 Bbls. sand-laden fluid, using 40,000# 20/40 sand.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand 5th Sand Depth 2517' - 2524'

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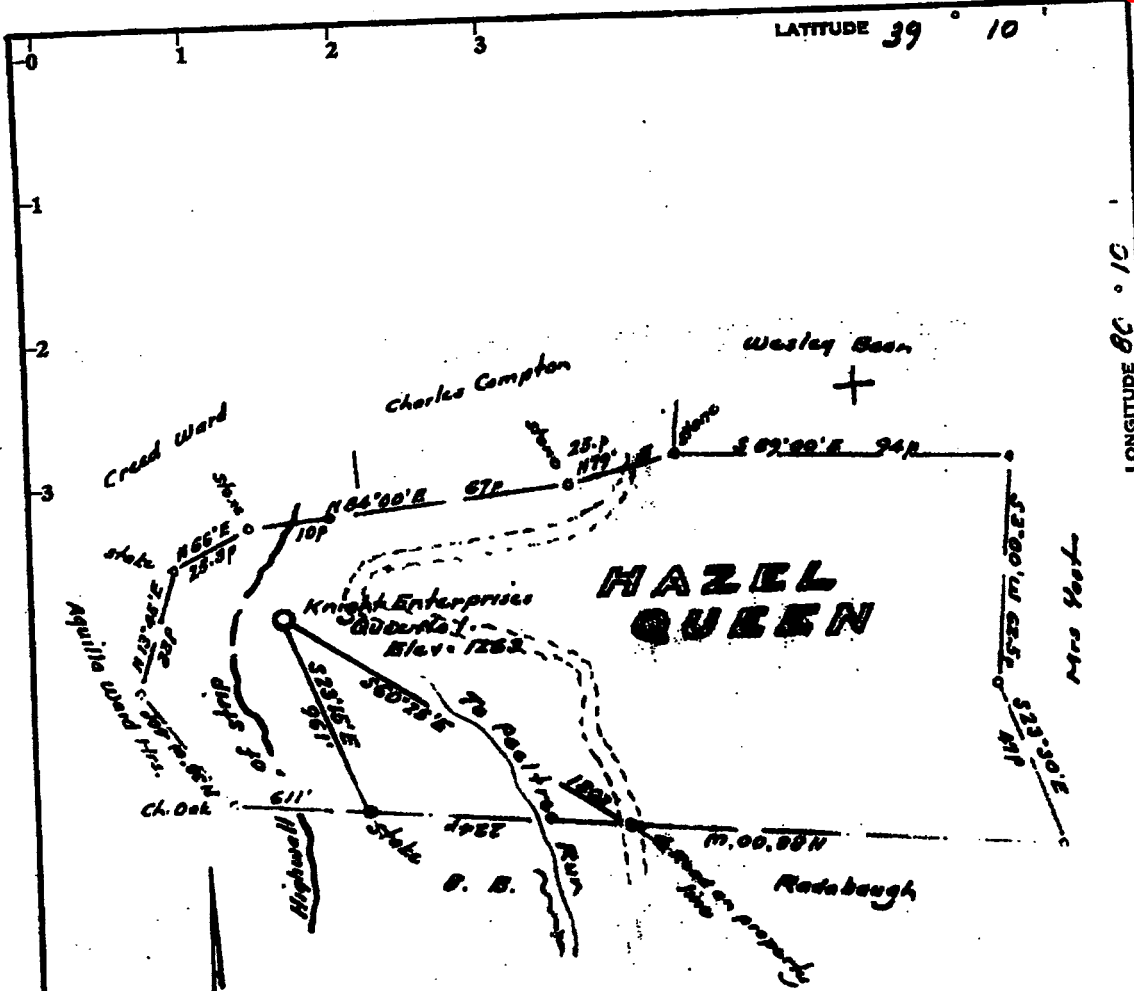
OCT 31 2018

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand, Shale			0	335		
Sand, Shale			335	422		
Sand, Shale			335	965		
Sand, Shale, RR			965	1430		
Sand, Shale Little & Big Lime			1430	1740		
Injun Sand, Sand, Shale RR			1740	2275		
Sand, Shale			2275	3620		
Sand, Shale			3620	4287		
Sand, Shale			4287	4600 TD		

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* Indicates Electric Log tops in the remarks section.

(over)



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Minimum Error of Closure 1 in 200'

Source of Elevation USGS BM at Paultrus - 1062

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Fracture.....

New Location.....

Drill Deeper.....

Abandonment.....

Map No.

Signed: [Signature]

Squares: N S E W

Company White Shield Oil & Gas Corp.

Address P.O. Box 2139, Tulsa, Oklahoma.

Farm Hazel Queen

Tract _____ Acres 117 Lease No. _____

Well (Farm) No. Knight Enterprises Queen No. 1

Elevation (Sp. Level) 1262

Quadrangle Phillipi

County Barbour District Union

Engineer W. Abstract 57

Engineer's Registration No. 1237

File No. _____ Drawing No. _____

Date Jan. 17, 1973 Scale 1" = 400' = 660'

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

WELL LOCATION MAP

FILE NO. 47-626

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-001-00626
01/18/2019

WW-4A
Revised 6-07

1) Date: August 29, 2018
2) Operator's Well Number
Hazel Queen #1
3) API Well No.: 47 - 001 - 00626

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: (a) Name Isaac Smith Ward III, Address 650 Ward Rd, Volga, WV 26258. 5) (a) Coal Operator Name North Central Resources, Address 200 Chapel Brook Drive, Bridgeport, WV 26330. (b) Coal Owner(s) with Declaration Name North Central Resources, Address 200 Chapel Brook Drive, Bridgeport, WV 26330. 6) Inspector Name Kenneth Greynolds, Address 613 Broad Run Road, Jane Lew, WV 26379, Telephone 1-304-206-6613. (c) Coal Lessee with Declaration Name, Address.

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OCT 31 2018
WV Department of Environmental Protection

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 reverse side. However, you are not required to take any action at all.

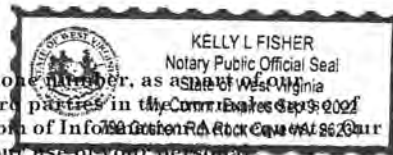
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Mike Ross Inc.
By: Mike Ross
Its: President
Address P.O. Box 219, Coalton, WV 26257
Telephone 1-304-472-4289

Subscribed and sworn before me this 4th day of September, 2018
Kelly L. Fisher Notary Public
My Commission Expires September 9, 2022

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 its regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the course of its 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

47-001-00626 Queen #1

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

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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,



Date 2/13/18 Name _____

Signature

By
Its

_____ Date

Signature

_____ Date

47-001-00626P

01/18/2019

WW-9
(5/16)

API Number 47 - 001 - 00626
Operator's Well No. _____

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

Operator Name Mike Ross Inc. OP Code 49450207

Watershed (HUC 10) Tanner's Run into Gnatty Creek Quadrangle Brownton

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: _____

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. _____

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

Additives to be used in drilling medium? _____

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

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

-Landfill or offsite name/permit number? _____

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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 Mike Ross

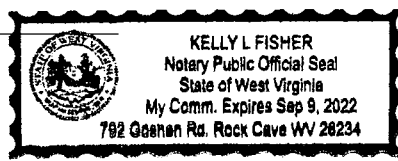
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 4th day of September, 2018

Kelly L. Fisher Notary Public

My commission expires September 9, 2022



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	30	Fescue	30
Contractors Mix		Contractors Mix	

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: [Signature]

Comments: _____

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Title: OIL PITS INSPECTOR Date: 10-24-18

Field Reviewed? () Yes (X) No

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

Operator Name: Mike Ross Inc.

Watershed (HUC 10): Tanner's Run into Gnatty Creek Quad: Brownnton

Farm Name: _____

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

N/A

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

N/A

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

Tanner's Run into Gnatty Creek

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Environmental Protection

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

N/A

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

N/A

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

No material will be used

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.

N/A

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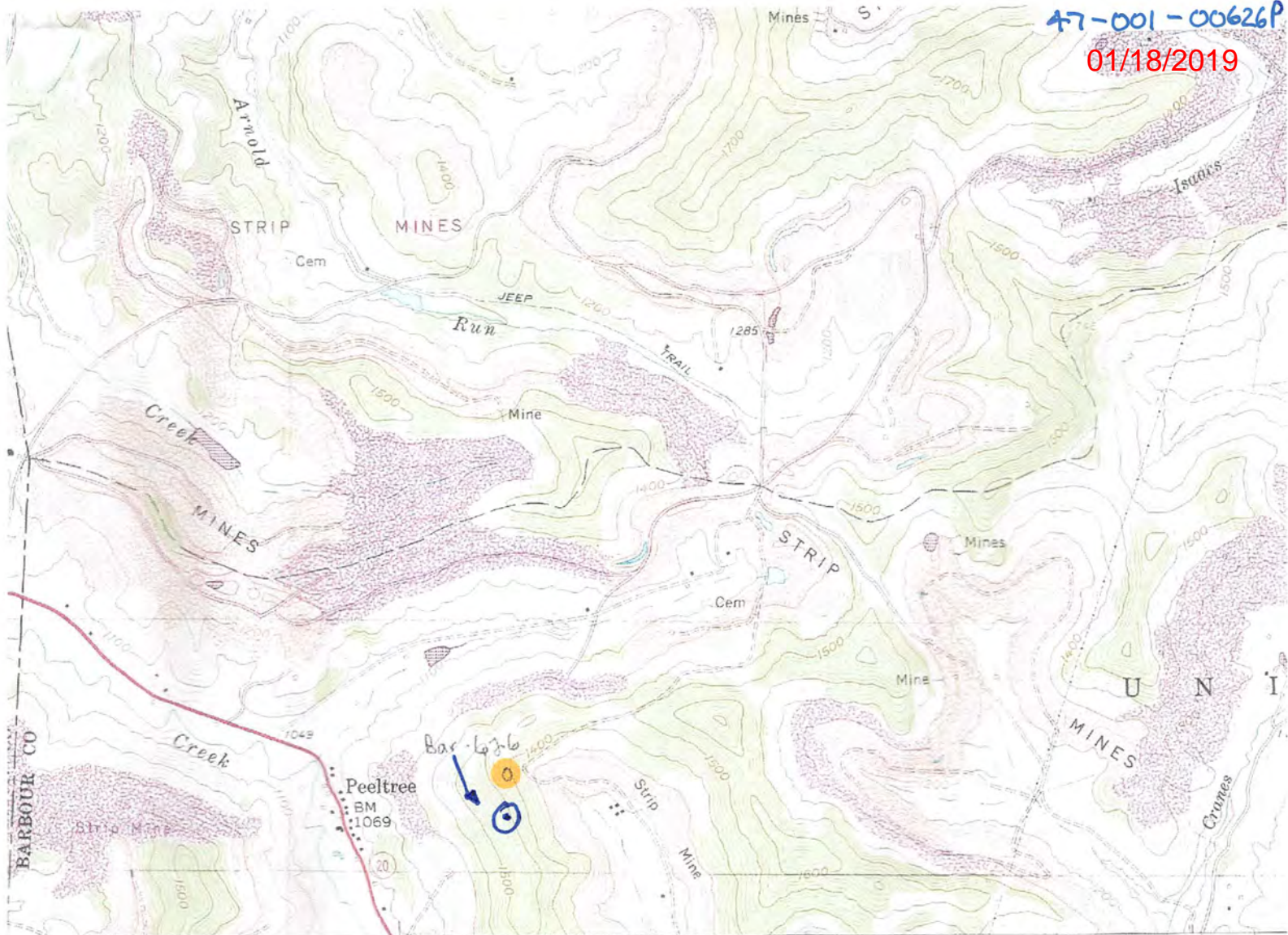
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

Signature: Mike Ross

Date: 9-4-18

47-001-00626P
01/18/2019



BARBOUR CO

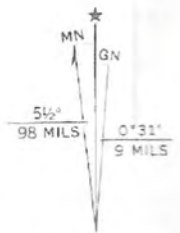
UNION

87 88 12'30" 89 90 (CENTURY) 91 CENTURY 4.1 MI.
HODGESVILLE 5.4 MI. BUCKHANNON 11 MI. 4962 II SW

SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



h zone
re checked

UTM GRID AND 1976 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

47-001-00626P
568853.4

43313658
568853.4

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-001-00626 WELL NO.: 1

FARM NAME: Hazel Queen

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Barbour DISTRICT: Union

QUADRANGLE: Brownton

SURFACE OWNER: Isaac Smith Ward III

ROYALTY OWNER: Isaac Smith Ward III

UTM GPS NORTHING: 4331365.8

UTM GPS EASTING: 568853.4 GPS ELEVATION: 1263'

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.

Mike Ross
Signature

President
Title

01-18
Date

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