



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

Friday, September 21, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

JAY-BEE OIL & GAS, INC.
1720 RT. 22 E

UNION, NJ 070830000

Re: Permit approval for 3
47-073-00880-00-00

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: 3
Farm Name: RENNER, HOWARD A.
U.S. WELL NUMBER: 47-073-00880-00-00
Vertical Plugging
Date Issued: 9/21/2018

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.

WW-4B
Rev. 2/01

1) Date August 27th, 2018 ~~2018~~ 08/21/2018
2) Operator's
Well No. Howard A. Renner #3
3) API Well No. 47-073 - 00880

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 ____ / Liquid injection ____ / Waste disposal ____ /
(If "Gas, Production ____ or Underground storage ____) Deep ____ / Shallow ____

5) Location: Elevation 628' Watershed Middle Island Creek
District Union County Pleasants Quadrangle Bens Run 7.5

6) Well Operator Jay-Bee Oil & Gas, Inc. 7) Designated Agent Shane Dowell
Address 3570 Shields Hill Rd Address 3570 Shields Hill Rd
Cairo, WV 26337 Cairo, WV 26337

8) Oil and Gas Inspector to be notified
Name Cragin Blevins
Address 1407 19th Street
Vienna, WV 26105

9) Plugging Contractor
Name Patchwork Oil & Gas, LLC
Address PO Box 168
Davisville, WV 26142

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

Plugging procedures to follow

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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 J Cragin Blevins Date 8/30/2018

09/21/2018

Work Order Attachment

47-073-00880

Howard A. Renner #3

Run Bond log when necessary to find cement top. Gel spacers in between all cement plugs.

1. Prepare plugging permit application.
2. Certify to surface and coal owners as necessary.
3. Certify and/or email to designated State inspector for signature.
4. Once all signatures are obtained, copy for our records and certify at the state level for approval.
5. Receive plugging permit good for 2 years.
6. Notify the designated State inspector 24 hours prior to commencing operations.
7. Move rig and equipment to location.
8. Verify total depth of 4462'.
9. Attempt to clean out well bore, pull rods and tubing, if necessary.
10. Run gel
11. Run tubing to 50' below the bottom of the perforations (4274-4371) set first plug with Class A cement with no more than 3% CaCl₂ and no other additives from 4421 to 4224'.
12. Pull tubing back, wait 8 hours.
13. Run in and tag plug, add additional cement if needed.
14. Run 6% Bentonite gel
14a FREEPOINT 4 1/2" CASING. IT MAY BE FREE AT ~ 2000'. SEE NEXT PAGE.
THIS FOR 14b -
- ★ 15. Run tubing to 50' below the bottom of the coal seams (930' & 1022') set second plug with Class A cement with no more than 3% CaCl₂ and no other additives from 1072' to 880'.
16. Pull tubing back, wait 8 hours.
17. Run in and tag plug, add cement if needed.
20. ~~Begin looking for free point.~~ FREE POINT ALREADY FOUND.
21. ~~Cut and remove casing and place the third 100' plug across the casing cut using Class A cement with no more than 3% CaCl₂ and no other additives.~~

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22. ~~Pull tubing back, wait 8 hours.~~
23. ~~Run in and tag plug, add cement if needed.~~
24. Pull tubing to 50' below the bottom of the 8 5/8 set fourth plug with Class A cement with no more than 3% CaCl₂ and no other additives covering the 8 5/8 casing shoe and elevation from 678' to 544'.
25. Pull tubing back, wait 8 hours.
26. Run in and tag plug, add cement if needed.
27. Pull tubing back to 100' and place a surface plug and remove plugging string.
28. Set 3' high x 7" casing with concrete; add API for identification.
29. RDMO
30. Reclaim location.
31. Prepare WR-34 & WR-35 for permit release

14b. CUT 4 1/2" @ FREE POINT (≈ 2000'), SET 200' CLASS A CEMENT PLUG ACROSS CASING CUT. PULL TUBING BACK & WOC.

14c. SET 200' CLASS A CEMENT PLUG FROM 1000' - 1400'.

CONTINUE TO 15. ★

CG-9
Rev. 9-71



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Bens Run
Permit No. 47-073-0880

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. X
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company B.K.K. Prospecting, LTD
Address 45 North Road, Niles, Ohio 44446
Farm Howard A. Renner Acres 138.59
Location (waters) Middle Island Creek
Well No. Renner # 3 Elev 628
District Union County Pleasants
The surface of tract is owned in fee by Howard A. Renner
Address Bens Run, WV
Mineral rights are owned by Same
Drilling Comm. 5/11/81
Drilling Comp. 5/16/81
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test 1375 - RP.

Size	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
20-16			
13-10			
9 5/8			
8 5/8	594'	594'	Cem. to sur
7			
5 1/2			
4 1/2		462'	500 sks
3			
2			
Liners Used			

Well treatment details:
Perforated 4274 - 4371 (shots Fractured with 45,000 # Sand, 567 MCF Nitrogen and 165 BBL Water)

Coal was encountered at 930, 1022 Feet 24, 24 Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Devonian Shale Depth 3400' - 4400'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Soil	Brown	Soft	0	6		
Sand & Shale		Hard	6	600		
Shale	Gray	"	600	1080		
Sandstone	Gray	"	1080	1170		
Shale	Gray	"	1170	1300		
Sandstone	Gray	"	1300	1320		
Shale	Gray	"	1320	1400		
Limestone	Gray	"	1400	1490		
Sandstone	Gray	"	1490	1700	Gas & Water	Big Injun
Shale	Gray	"	1700	2460		
Sandstone	Gray	"	2460	2470	Gas & Oil	Gordon
Shale	Gray	"	2470	4500	Gas & Oil	Dev. Shale
Total Depth			4500			

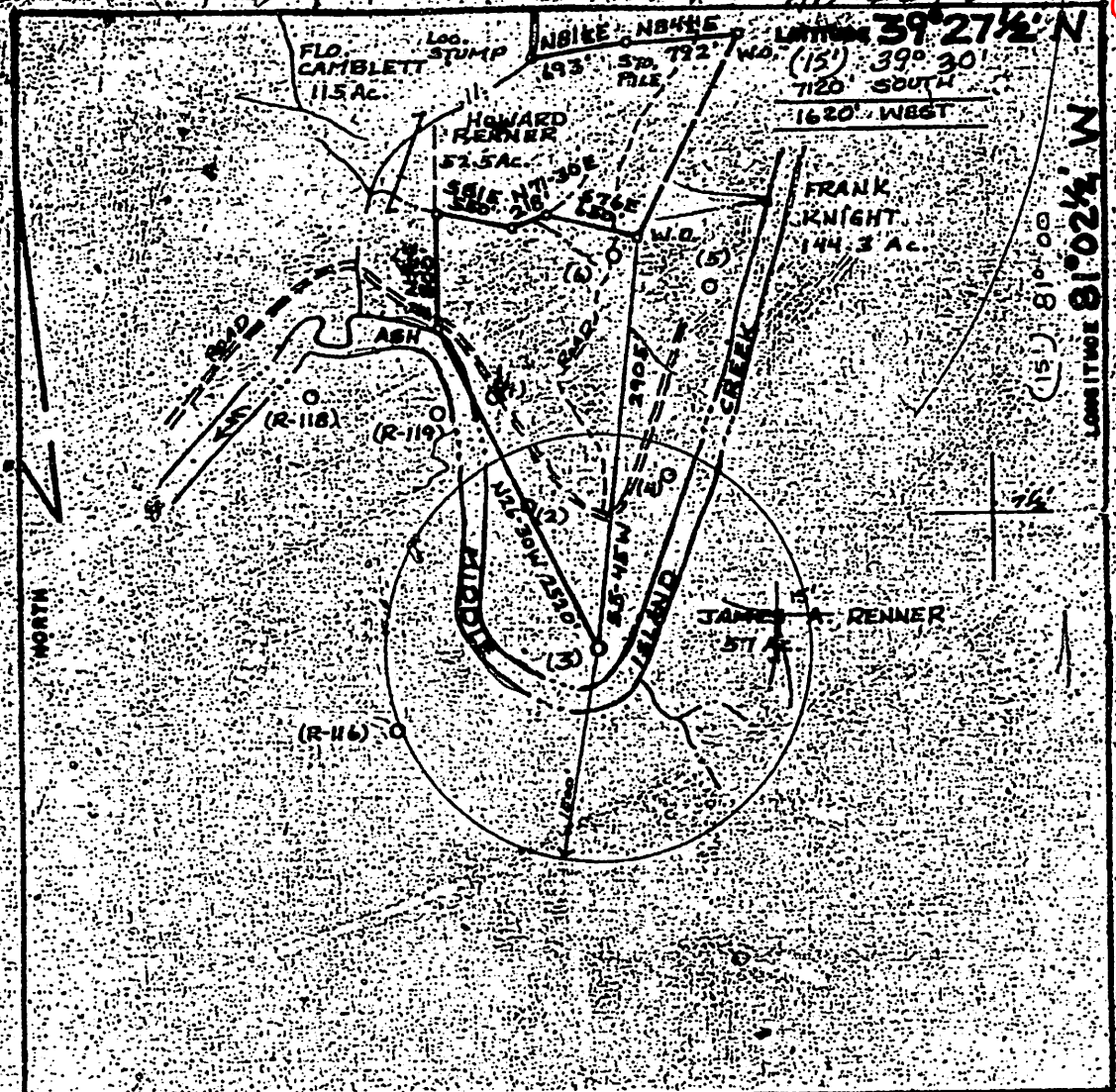
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* Indicates Electric Log tops in the remarks section.

(over)

47-6-24-80

09/21/2018



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BRIDGE B.M.
 EL. 624'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) William P. Moore
 R.P.E. _____ L.L.S. 561

PLACE SEAL HERE

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

DATE 8 APRIL, 1980
 OPERATOR'S WELL NO. 3
 API WELL NO. 47-073-0880-Rev
 STATE WV COUNTY PERMITS

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 628 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT UNION COUNTY PLEASANTS
 QUADRANGLE BENS RUN T 1/2 QUAD ST. MARYS 15
 SURFACE OWNER HOWARD A. RENNER ACREAGE 138.59
 OIL & GAS ROYALTY OWNER HOWARD A. RENNER LEASE ACREAGE 300
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUS OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON CLEAN OUT AND REPLUS
 TARGET FORMATION GORDON ESTIMATED DEPTH 2700-3800
 WELL OPERATOR LAUDERMAN O & G DESIGNATED AGENT PHILLIP MORGAN
 ADDRESS Box 266 Paden City, WVA. 26159 ADDRESS 311 4th Ave. Paden City, WVA. 26159

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09/21/2018

WW-4A
Revised 6-07

1) Date: August 27th, 2018
2) Operator's Well Number
Howard A. Renner #3
3) API Well No.: 47 - 073 - 00880

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 Jay Renner /	Name n/a
Address 2578 Cedar Run Rd	Address
Friendly, WV 26146	
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name n/a
	Address
(c) Name	Name
Address	Address
6) Inspector Cragin Blevins	(c) Coal Lessee with Declaration
Address 1407 19th Street	Name n/a
Vienna, WV 26105	Address
Telephone 304-382-5933	

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 Jay-Bee Oil & Gas, Inc.
 By: _____
 Its: Designated Agent
 Address 3570 Shields Hill Rd
 Cairo, WV 26337
 Telephone (304) 628-3111



Subscribed and sworn before me this 28th day of August 2018
Teresa R. Hall Notary Public
 My Commission Expires Oct 3rd 2019

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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.

09/21/2018

WW-9
(5/16)

API Number 47 - 073 .00880

Operator's Well No. Howard A. Renner 3

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

Operator Name Jay-Bee Oil & Gas, Inc. OP Code 307600

Watershed (HUC 10) Middle Island Creek Quadrangle Bens Run 7.5

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 Vac truck will be used for any fluids, no pit will be used.)

ALL WELL EFFLUENT MUST BE DISPOSED OF OFF-SITE, PROPERLY.
Jam

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? _____

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: [Signature]
Company Official (Typed Name) Shane Dowell
Company Official Title Designated Agent

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Subscribed and sworn before me this 28th day of August, 20 18

Teresa R. Hall
My commission expires Oct 9th 2019



09/21/2018

Operator's Well No. Howard A Renner #3

Proposed Revegetation Treatment: Acres Disturbed 3.2 Prevegetation pH 6.67

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20 equivalent

Fertilizer amount 500 lbs/acre

Mulch Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
		Tall Fescue	40
		Ladino Clover	5

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.

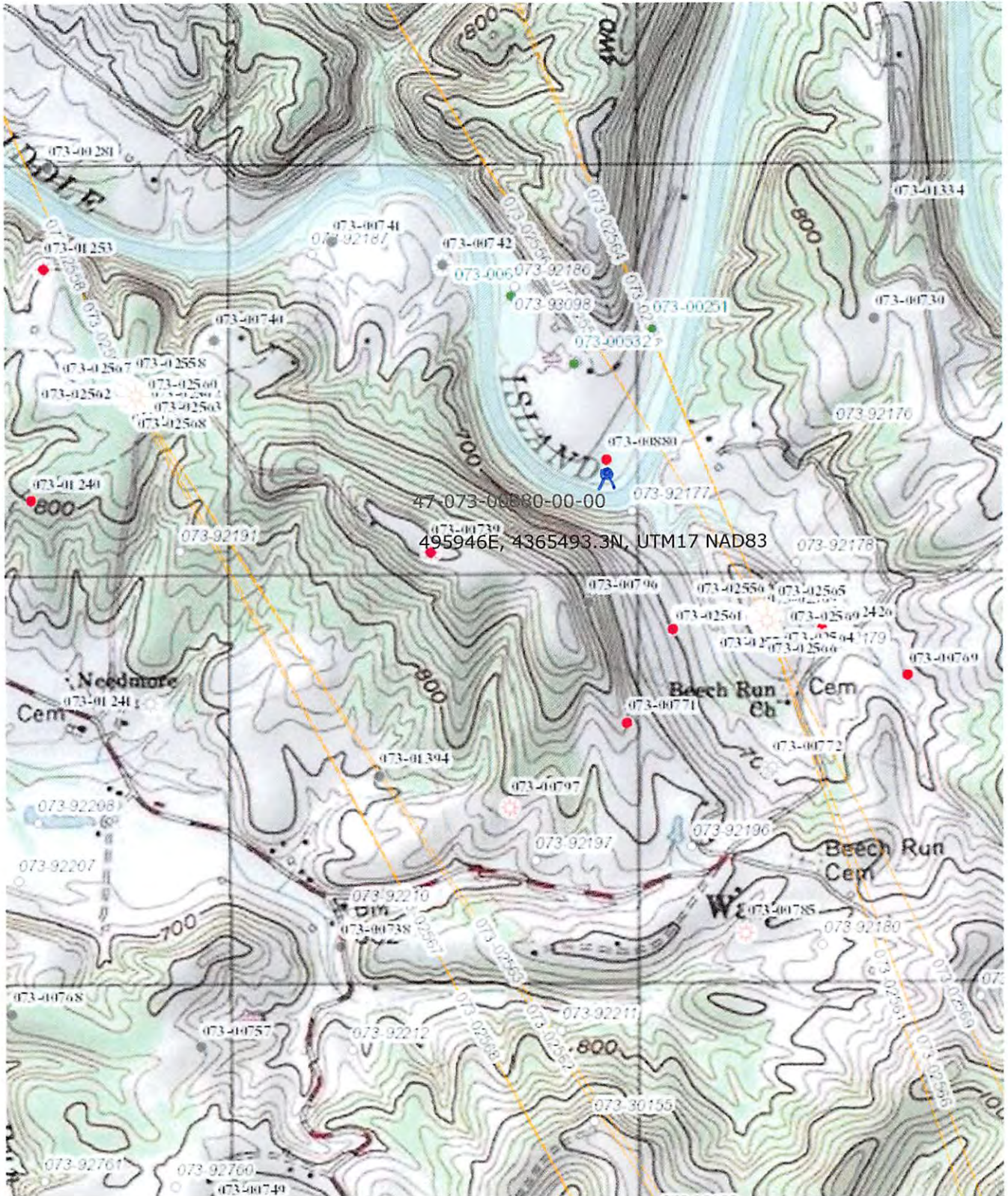
Plan Approved by: J. Cragin Blevins

Comments: _____

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Title: Oil and Gas Inspector Date: 8/30/2018

Field Reviewed? () Yes () No



09/21/2018

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-073-00880 WELL NO.: #3

FARM NAME: Howard A. Renner

RESPONSIBLE PARTY NAME: Jay-Bee Oil & Gas, Inc.

COUNTY: Pleasants DISTRICT: Union

QUADRANGLE: Bens Run 7.5

SURFACE OWNER: Jay Renner

ROYALTY OWNER: Jay Renner

UTM GPS NORTHING: 4365493.3

UTM GPS EASTING: 495946 GPS ELEVATION: 628'

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.

[Signature]
Signature

Office MGR
Title

8-28-18
Date

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For delivery information, visit our website at www.usps.com®.

7075 0640 1007 9294 0132

FRIENDLY, WV 26146

Certified Mail Fee	\$3.45
Extra Services & Fees (check box, add fee as appropriate)	\$2.75
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$1.42
Total Postage and Fees	\$7.62

Postmark Here
0763 05
08/29/2018

Sent To Jay Renner
Street and Apt. No., or PO Box No. 2578 Cedar Run Rd
City, State, ZIP+4® Friendly, WV 26146

PS Form 3800, April 2016 PSN 7530-02-000-9047 See Reverse for Instructions

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