



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, March 12, 2019

WELL WORK PLUGGING PERMIT
Vertical Plugging

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

UNION, NJ 070830000

Re: Permit approval for J. POWELL 2
47-073-00791-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: J. POWELL 2
Farm Name: LILLY, DONALD
U.S. WELL NUMBER: 47-073-00791-00-00
Vertical Plugging
Date Issued: 3/12/2019

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.

WW-4B
Rev. 2/01

1) Date November 12, 2018
2) Operator's
Well No. J. Powell #2
3) API Well No. 47-073-00791

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 XX / Gas XX / Liquid injection _____ / Waste disposal _____ /
(If "Gas, Production XX or Underground storage _____) Deep _____ / Shallow _____
- 5) Location: Elevation 1015' Watershed Sugar Creek
District Union County Pleasants Quadrangle Bens Run
- 6) Well Operator Jay-Bee Oil & Gas, Inc. 7) Designated Agent Randy Broda
Address 3570 Shields Hill Rd Address 3570 Shields Hill Rd.
Cairo, WV 26337 Cairo, WV 26337
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Cragin Blevins Name Patchwork Oil & Gas, LLC
Address 1407 19th St. Address Po Box 168
Vienna, WV 26105 Davisville, WV 26142

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

Work Order attached.

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 1/3/2019

Work Order Attachment

47-073-00791

Powell #2

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. Attempt to clean out well bore, pull rods and tubing, if necessary.
9. Verify total depth of bridge plug at 2210'.
10. Drill out bridge plug.
11. Verify total depth of 2995'
12. Run tubing to 50' below the bottom of the first set of perforations (2892-2887) and 50' above the perforations. Set bottom plug with Class A cement with no more than 3% CaCl₂ and no other additives from 2942' to 2837'.
13. Pull tubing back, wait for cement to set.
14. Run in and tag plug, add additional cement if needed.
15. Run 6% Bentonite gel
16. Run tubing to 50' below the second set of perforations (2096'-2088') and set plug using Class A cement with no more than 3% CaCl₂ and no other additives. (2146'-2038')
17. Run bond log and shoot casing at free point.
18. Cut 4 ½ casing

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19. Place plug through the 4 ½ casing cut (100' minimum) with Class A cement with no more than 3% CaCl₂ and no other additives.
20. Pull 4 ½" back to 50' below the 8 5/8" casing shoe and place a plug with Class A cement with no more than 3% CaCl₂ and no other additives from 1086'-965' covering both elevation and casing shoe.
21. Pull 4 ½" back to 100' and set surface plug with Class A cement with no more than 3% CaCl₂ and no other additives from 100' to surface.
22. Pull tubing out
23. Set 3' high x 7" casing with concrete; add API for identification.
24. RDMO
25. Reclaim location.
26. Prepare WR-34 & WR-35 for permit release

Note: Using cut 4 ½ to plug out of hole to keep from the hole collapsing on way out.

WR-35

27-Mar-97
API # 47- 73-00791 F

NOV 11 1997
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Permitting
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: LILLY, DONALD Operator Well No.: J. POWELL #2

LOCATION: Elevation: 1,015.00 Quadrangle: BENS RUN

District: UNION County: PLEASANTS
Latitude: 3800 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 3200 Feet West of 81 Deg. 2 Min. 30 Sec.

Company: ECOLOGICAL ENERGY, INC.
P. O. BOX 730
ST. MARYS, WV 26170-0000

Agent: BERNARD TICE

Inspector: SAM HERSMAN
Permit Issued: 04/04/97
Well work Commenced: 06/23/97
Well work Completed: 09/15/97
Verbal Plugging

Permission granted on:
Rotary Cable Rig
Total Depth (feet)
Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)?
Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	1036'	1036'	120 SKS.
4 1/2"		2993'	200 SKS.

EXISTING

OPEN FLOW DATA

Producing formation Squaw Pay zone depth (ft) 2090
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure 348 psig (surface pressure) after 48 Hours

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
Final open flow MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests Hours
Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: ECOLOGICAL ENERGY, INC.

By: Consultant
Date: 9/16/97

Over →

PLF 0791
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Temporary bridge plug: Set 4 1/2" solid bridge plug at 2210'.

Perforated Interval: (2088' - 96') 12 holes, 0.41".

Fracturing treatment: 500 gals. 7 1/2% HCL acid, Halliburton Delta frac,
238 BBLS. total fluid, Breakdown press: 4000#,
Avg. rate: 12 BFM., Avg. press.: 2300#, 25000 lbs.
20/40 sand, ISIP: 1821.

See original IV-35 State report for additional formation information and flow data.

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IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date April 19, 1982
Operator's
Well No. 2
Farm Jim Powell
API No. 17 - 073 - 0791

CORRECTED COPY

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 1015 Watershed Sugar Creek
District: Union County Pleasants Quadrangle Bens Run

COMPANY L&M Petroleum Co.
ADDRESS P.O. Box 89, Reno, OH 45773
DESIGNATED AGENT David Clovis
ADDRESS Box 288, Parkersburg, WV 26101
SURFACE OWNER James Powell
ADDRESS Harmony Ac., St. Marys, WV
MINERAL RIGHTS OWNER Same as Above
ADDRESS

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1036		120 sq
7			
5 1/2			
4 1/2	2995	2995	200 sq.
3			
2			
Liners used			

OIL AND GAS INSPECTOR FOR THIS WORK
Phil Tracy ADDRESS Rt #23, Alma, WV
PERMIT ISSUED September 17, 1979
DRILLING COMMENCED 9-27-79
DRILLING COMPLETED 10-7-79

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REMORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500 feet
Depth of completed well 3500 feet Rotary / Cable Tools ___
Water strata depth: Fresh ___ feet; Salt ___ feet
Coal seam depths: ___ Is coal being mined in the area? ___

OPEN FLOW DATA
Producing formation Gordon Pay zone depth 2884 - 2894 feet
Gas: Initial open flow 150 Mcf/d Oil: Initial open flow ___ Ebl/d
Final open flow 80 Mcf/d Final open flow ___ Ebl/d
Time of open flow between initial and final tests 6 hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in
(If applicable due to multiple completion--)
Second producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow ___ Mcf/d Oil: Initial open flow ___ Ebl/d
Final open flow ___ Mcf/d Oil: Final open flow ___ Ebl/d
Time of open flow between initial and final tests ___ hours
Static rock pressure ___ psig (surface measurement) after ___ hours shut in

(Continue on reverse side)

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FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated: 12 shots 2887 to 2892

Frac'd : 8-15-80 Broke @ 3400: Ave. Pressure 2600: Ave. Rate 15 B..P.M.:
Water 856 Barrels: ISI 1200 (5 Min. 1100): Sand 60,000#:
Nitro 135,000 SCF:::

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	13	
Blue Rock			13	35	
Red Rock			35	80	
Lime			80	90	
Sand Rock			90	100	
Slate			100	115	
Lime			115	125	
Slate			125	140	
Lime			140	145	
Slate			145	167	
Red Rock			167	195	
Slate			195	205	
Lime & Shell			205	210	
Slate			210	225	
Red Rock			225	300	
Big Red			300	450	
1st Cow Rin			490	500	
Shale			500	740	
1st Salt Sand			740	845	
Slate			880	925	
Sand			1010	1030	
2nd Salt Sand			1065	1110	
Slate			1110	1125	
Sand			1125	1135	
Slate			1135	1155	
Sand			1190	1215	
Black Shale			1125	1321	
Lime			1321	1333	
Black Slate			1333	1355	
Lime			1355	1380	
Slate			1380	1415	
Black Shale			1415	1450	
Shale			1475	1505	
Sand			1512	1540	
Lime			1576	1589	
Shale & Lime			1623	1654	
Slate			1689	1713	
Sandstone			1738	1770	

SEE ATTACHED SHEET

(Attach separate sheets as necessary)

L&M Petroleum Co.

Well Operator

By: Jean Kettering

Date: *Jean Kettering*

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including those encountered in the drilling of a well."

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JIM POWELL # 2

API - 47-073-0791

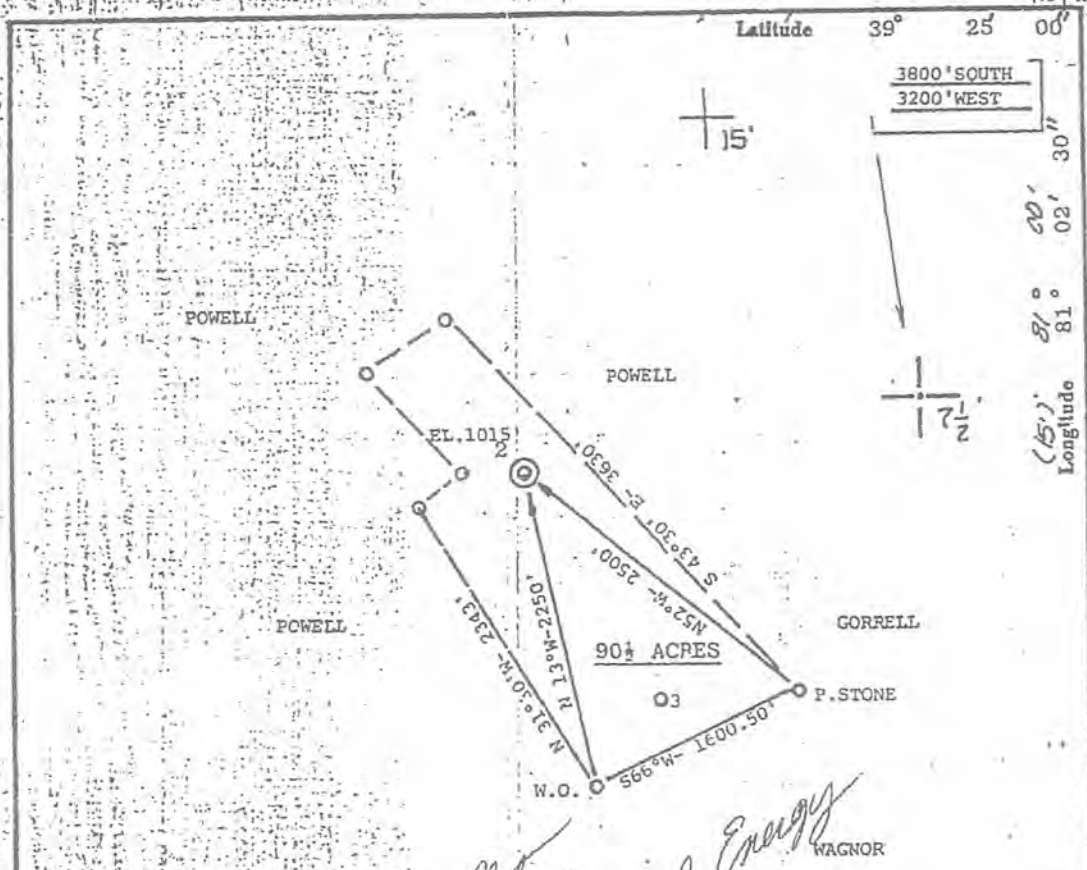
FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Maron Sand	1810	1830	
Big Lime	1855	1900	
B. Injun Sand	1974	2116	
Shale	2118	2140	
Siltstone	2140	2150	
Shale	2150	2160	
Siltstone	2160	2190	
Shale	2190	2206	
Weir Sand	2208	2256	
Shale	2258	2300	
Shale	2300	2350	
Siltstone	2390	2400	
Berea Sand	2408	2420	
Shale	2420	2510	
Siltstone	2510	2530	
Shale	2530	2550	
Siltstone	2550	2590	
Shale	2590	2600	
Siltstone	2600	2640	
Siltstone	2640	2660	
Shale	2660	2750	
Shale	2750	2790	
Siltstone	2800	2820	
Shale	2820	2850	
Gordon	2884	2894	Oil/Gas
Shale	2894	3000	
Siltstone	3000	3300	
Shale	3300	3500	

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9/18/79



Latitude 39° 25' 00"
 3800' SOUTH
 3200' WEST
 15'
 30"
 00'
 02'
 81°
 81°
 (15')
 Longitude



Suppld Plat for Use by Ecological Energy
Ad. Walden
47-073-00791-7
Jimmie
4/4/97

ACCURACY: 1:200

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation GORDON Oil
 Est. Depth 2750' Gas
 Other

Source of Elevation NEAR CRAIG CEN. (974')
 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.

Company L & M OIL COMPANY
 Address MARIETTA, OHIO
 Surface Owner JIMMIE A. POWELL
 Mineral Owner JIMMIE A. POWELL

Well No. 2 Acres 90+
 Elevation 1015'
 Quadrangle BENS RUN Series 15'
 County PLEASANTS District UNION
 Date 9/7/79 Scale 1" = 1000'

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

WELL LOCATION MAP
47 - 073 - 0791 G
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN
 Engineer's Registration No. 3700 File No. 79-616



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WW-4A
Revised 6-07

1) Date: November 12, 2018
2) Operator's Well Number
J. Powell #2
3) API Well No.: 47 - 073 - 00791

**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 <u>James A. Powell</u>	Name _____
Address <u>1757 N Pleasants Hwy St. Mary's, WV 26170</u> ✓	Address _____
(b) Name <u>Jason M. Powell</u>	(b) Coal Owner(s) with Declaration
Address <u>616 Dewey Ave. St. Mary's, WV 26170</u> ✓	Name _____
<u>Jefferey W. Powell</u> ✓	Address _____
(c) Name <u>11729 Channingway Blvd. The Plains, OH 45780</u>	Name _____
Address <u>Joseph P. Powell</u> ✓	Address _____
<u>1691 N. Pleasants Hwy St. Mary's, WV 26170</u>	
6) Inspector <u>Cragin Blevins</u>	(c) Coal Lessee with Declaration
Address <u>1407 19th St.</u>	Name _____
<u>Vienna, WV 26105</u>	Address _____
Telephone <u>304-382-5933</u>	

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 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 12th day of December, 2018
Patrick Morgan Notary Public
 My Commission Expires October 25, 2023

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 deprts@wvde.gov.

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 WV Department of
 Environmental Protection

47-073-00791P

WW-9
(5/16)

API Number 47 - 073 - 00791
Operator's Well No. J. Powell #2

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) Sugar Creek Quadrangle Bens Run

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 used in plugging procedures and disposed of property. **OFF-SITE**)

JCB
1/3/2019

Will closed loop system be used? If so, describe: n/a

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

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

-Landfill or offsite name/permit number? n/a

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 _____

Company Official (Typed Name) Randy Broda

Company Official Title President (Designated Agent)

Subscribed and sworn before me this 12th day of December, 20 18

Patrick Moran Notary Public

My commission expires October 25, 2023

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Form WW-9

Operator's Well No. J. Powell #2

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 5.5

Lime 1-2 Tons/acre or to correct to pH 6.5

Fertilizer type 5-10-10

Fertilizer amount 500 lbs/acre

Mulch Straw Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type

lbs/acre

Pasture Mix

200

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.

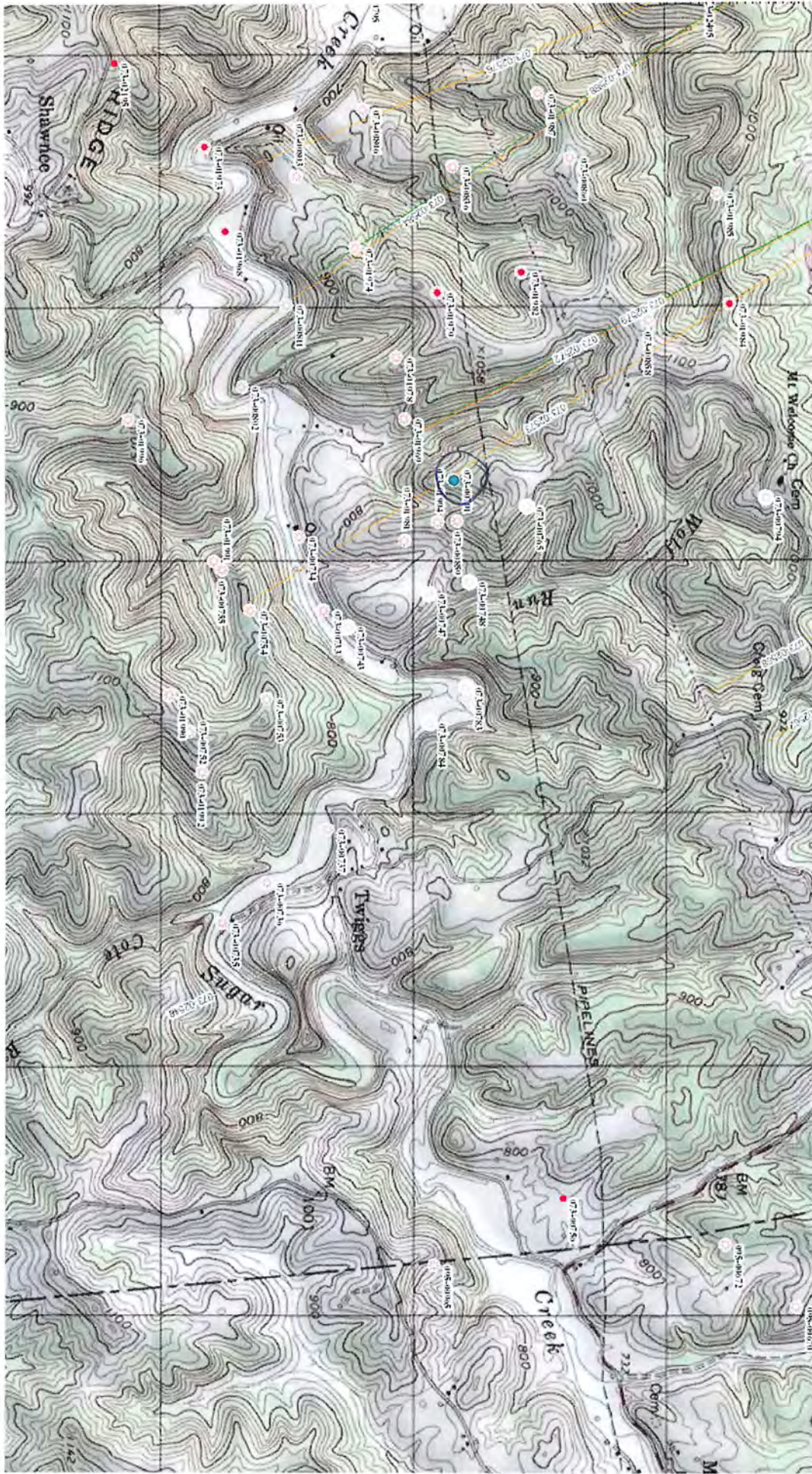
Plan Approved by: J Cragin Blevins

Comments: _____

Title: Oil and Gas Inspector Date: 1/3/2019

Field Reviewed? Yes No

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N

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-073-00791 WELL NO.: J. Powell #2

FARM NAME: Donald Lilly

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

COUNTY: Pleasants DISTRICT: Union

QUADRANGLE: Bens Run

SURFACE OWNER: James A. Powell, Jason M. Powell, Jeffrey W. Powell & Joseph P. Powell

ROYALTY OWNER: Same

UTM GPS NORTHING: 4361368.2

UTM GPS EASTING: 495702.7 GPS ELEVATION: 1015'

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 [Handwritten Signature]

Title President

Date 12-12-2018

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