



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

, Governor
, Cabinet Secretary
www.dep.wv.gov

WELL WORK PERMIT
/

Re: Permit approval for

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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of 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.

Chief

Operator's Well Number:
Farm Name:
U.S. WELL NUMBER:

Date Issued:



4707302570

west virginia department of environmental protection

Oil and Gas Conservation Commission
601 57th Street, SE Charleston, WV 25304
(304)926-0499, Ext 1656

Jim Justice, Governor
Barry K. Lay, Chairman
ogcc.wv.gov

June 27, 2017

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-073-02570

COMPANY: Jay-Bee Oil & Gas, Inc.

FARM: Robert and Victoria Davis - P8N4U

COUNTY Pleasants DISTRICT: McKim QUAD: Bens Run

The application for the above company is **approved to drill to Trenton**

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

1. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
2. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; none
3. Provided a plat showing that the proposed location is a distance of 410 feet from the nearest lease line or **unit boundary** and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines
Administrator

)

JUL 18 2017

PERMIT CONDITIONS

WV Department of
Environmental Protection

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

07/21/2017

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

1) Well Operator: Jay-Bee Oil & Gas, Inc. 24610 073-Pleasants 05-McKim Ben's Run 7.5'
3570 Shields Hill Rd, Cairo, WV 26337 Operator ID County District Quadrangle

2) Operator's Well Number: P8N4U 3) Elevation: 1058.7'

4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production X / Underground Storage _____
 Deep X / Shallow _____

5) Proposed Target Formation(s): Trenton Proposed Target Depth: 11,221'

6) Proposed Total Depth: 11,221' Feet Formation at Proposed Total Depth: Trenton

7) Approximate fresh water strata depths: 118' per API 47-073-00542

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: N/A

10) Approximate void depths,(coal, Karst, other): N/A

*DMH
5-15-17*

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Drill to the target formation for logging purposes and plugging back for possible future horizontal well.

SEE ATTACHED DETAILS SURFACE TO INTERMEDIATE DRILLED WITH AIR.
PRODUCTION HOLE DRILLED WITH 12.5 PPG SYNTHETIC OIL BASED MUD

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	
Conductor	26	A500	85 lb./ft	30'	30'	CTS 49 Cu. Ft.
Fresh Water	20	J55	94 lb./ft	300'	300'	CTS 288 Cu. Ft.
Coal	13 3/8	J55	61 lb./ft	1,800'	1,800'	CTS 1,250 Cu. Ft.
Intermediate	9 5/8	HCP-110	47 lb./ft	7,100'	7,100'	1,910 Cu. Ft.
Production						
Tubing						
Liners						

Packers: Kind: N/A

Sizes: _____

Depths Set _____

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WELL WORK DETAILS: DRILLING METHOD

The well will be drilled in one phase: Vertical to Total Depth (TD).

The vertical portion of the well will be drilled following the casing and cementing guidelines found later in this plan. The Conductor, Fresh Water, Intermediate and Production holes will be drilled in this process. The Total Depth (TD) of this well is set at 11,221'.

WELL WORK DETAILS: WELLBORE CASING AND CEMENTING STANDARDS

The location, if applicable, of all freshwater, saltwater, oil and gas producing, hydrogen sulfide producing, thief, and high pressure and volume zones are known to the operator.

Per Casing & Cementing Standards:

- All casings used in the wellbore must be new.
- Centralizers must be used during casing installations.
- Cements must meet API standards.
- A conductor must be cemented to the surface from the bottom if freshwater is behind it and conductor must remain in the well.
- At least 300 feet of surface casing shall be installed (unless, oil, gas or saltwater encountered) and must be cemented to the surface.
- Surface casing that is more than 300 feet deep shall be installed at least 50 feet and no more than 100 feet below the deepest freshwater strata and must be cemented to surface.
- Intermediate casing must be cemented to the surface. Production casing, at a minimum, must be installed and cemented at least from the top of target formation to a point 100 feet up inside the intermediate casing.
- All casings cemented shall not be disturbed for at least 8 hours after cementing operations.
- Surface and coal protection casings must be pressure tested at a pressure 20% greater than is expected to have exerted upon them and a cement quality log is conducted.
- Section of the wellbore for the conductor, surface, and coal protection strings drilled using only air, freshwater, or freshwater based drilling medium.
- No oil or gas production or pressure should exist on the surface or coal protection strings.
- Intermediate casing shall be pressure tested in the same manner as above except a shoe or jug test shall be conducted immediately after drilling resumes.
- Production casing must be pressure tested at a pressure 20% greater than is expected to have exerted upon it during the fracturing operations and have a bond log ran, when completed.
- Production casing pressure testing again, after fracturing, at a pressure 20% greater than the expected shut in pressure, when completed.

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- After running the casing for the 9 5/8" string, the hole is filled with approximately 12.5# Synthetic Oil Based Mud (SOBM). We will then drill on mud through TD.

WELL WORK DETAILS: FRACTURING AND STIMULATION METHODS

This well will not be fractured or stimulated at this time. Vertical logging only.

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WW-2A
(Rev. 6-14)

1.) Date: 5-15-2017
2.) Operator's Well Number P8N4U
State 47- County - Permit -
3.) API Well No.: 47- - -

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Michael & Victoria Davis</u> ✓	Name _____
Address <u>615 Riverside Drive</u>	Address _____
<u>St. Marvs. WV 26170</u>	_____
(b) Name <u>Gerald & Janice Burns</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>3683 Federal Ridge Rd.</u>	Name _____
<u>St. Marvs. WV 26170</u>	Address _____
(c) Name <u>Linda Lough</u> ✓	Name _____
Address <u>4293 Hebron Rd.</u>	Address _____
<u>St. Marvs. WV 26170</u>	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name _____
<u>Smithville WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

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

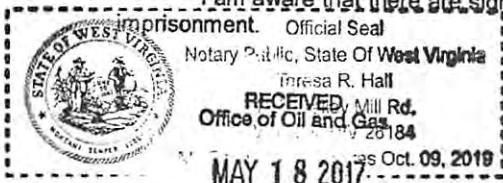
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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

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



Well Operator Jay-Bee Oil & Gas, Inc.
 By: Shane Dowell
 Its: Office Manager
 Address: 3570 Shields Hill Rd
Cairo, WV 26337
 Telephone: 304-628-3111
 Email: sdowell@iavbeeoil.com
 day of July 2017, Jav-Bee Oil & Gas, Inc.

WV Department of Environmental Protection
Subscribed and sworn to before me this 20th day of July 2017

Inresa R. Hall Notary Public
My Commission Expires Oct 09 2019
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

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Billy D. Hanlin	BB Land, LLC	12.5%	297-596
John P. Riggs	BB Land, LLC	12.5%	293-502
Brenda Riggs	BB Land, LLC	12.5%	293-502
John & Brenda Riggs	BB Land, LLC	12.5%	293-502

SEE AFFIDAVIT

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:
By: Its:

Jay-Bee Oil & Gas, Inc.

Shane Dowell

Office Manager

07/21/2017

AFFIDAVIT FILED PURSUANT TO
W. Va. CODE §§ 22-6-8 & 22-6A-5(a)(5)

STATE OF WEST VIRGINIA

COUNTY OF RITCHIE, to-wit:

Randy Broda, President of Jay-Bee Oil & Gas, Inc. and Randy Broda, Managing Member of BB Land, LLC, being duly sworn, state as follows:

1. I, Randy Broda, am the President of the applicant, Jay-Bee Oil & Gas, Inc. In my capacity as President, I am qualified and authorized to certify and verify the information set forth or referenced herein on behalf of the applicant.

2. I, Randy Broda, am the Managing Member of BB Land, LLC, which holds the rights to extract, produce or market the oil or gas. In my capacity as Managing Member, I am qualified and authorized to certify and verify the information set forth or referenced herein on behalf of BB Land, LLC.

3. We certify that we are authorized by the holders of the right to extract, produce or market the oil or gas, if not the applicant, to state that the applicant has the right to extract, produce or market the oil or gas pursuant to the leasing and other continuing contract information provided in the application(s) for the P8N4U well (API No. to be determined), on Form WW-2A1.

4. We certify that we are authorized by the owner of the working interest in the well to state that it shall tender to the owner of the oil or gas in place not less than one eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.

5. We certify under the penalty of law that we have personally examined and are familiar with the information contained and referenced herein and that, based on our inquiries of those individuals immediately responsible for obtaining the information, we believe that the information is true, accurate and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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Further, affiants sayeth naught.

[Signature]
Randy Broda, President of Jay-Bee Oil & Gas, Inc.

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 15th day of May, 2017 by Randy Broda, President of Jay-Bee Oil & Gas, Inc. on behalf of the corporation.

My commission expires: April 18, 2022



[Signature]
Randy Broda, Managing Member of BB Land, LLC

[Signature]
NOTARY PUBLIC

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 15th day of May, 2017 by Randy Broda, Managing Member of BB Land, LLC, on behalf of the company.

My commission expires: April 18, 2022



[Signature]
NOTARY PUBLIC

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Office of Oil and Gas

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4707302570

WW-2B1
(5-12)

Well No. P8N4U

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

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

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

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

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

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Reliance Labs
Sampling Contractor 2044 Meadowbrook Rd, Bridgeport, WV 26330

Well Operator Jay-Bee Oil & Gas, Inc.
Address 3570 Shields Hill Rd
Cairo, WV 26337
Telephone 304-628-3111

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

SEE ATTACHED LIST.

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P8N4U 1500' Water Sampling Radius

Name	Address	Phone	TM/P
Jack & Barbara Kimball	3912 Federal Ridge Rd., St. Marys, WV 26170	304-684-2674	M3 P15.1
Howard & Karen Smith	3911 Federal Ridge Rd., St. Marys, WV 26170	304-684-7701	M3 P15
Gerald & Janice Burns	3683 Federal Ridge Rd., St. Marys, WV 26170	304-684-2685	M3 P16
John & Gloria Cox	706 Dewey Ave, St. Marys, WV 26170	304-684-7667	M3 P18
Robert & Beverly Davis	3413 Federal Ridge Rd., St. Marys, WV 26170	304-684-9235	M3 P30.4
Richard Davis	3263 Federal Ridge Rd., St. Marys, WV 26170	304-684-7414	M3 P30.3

WV - 281 ATTACHMENT

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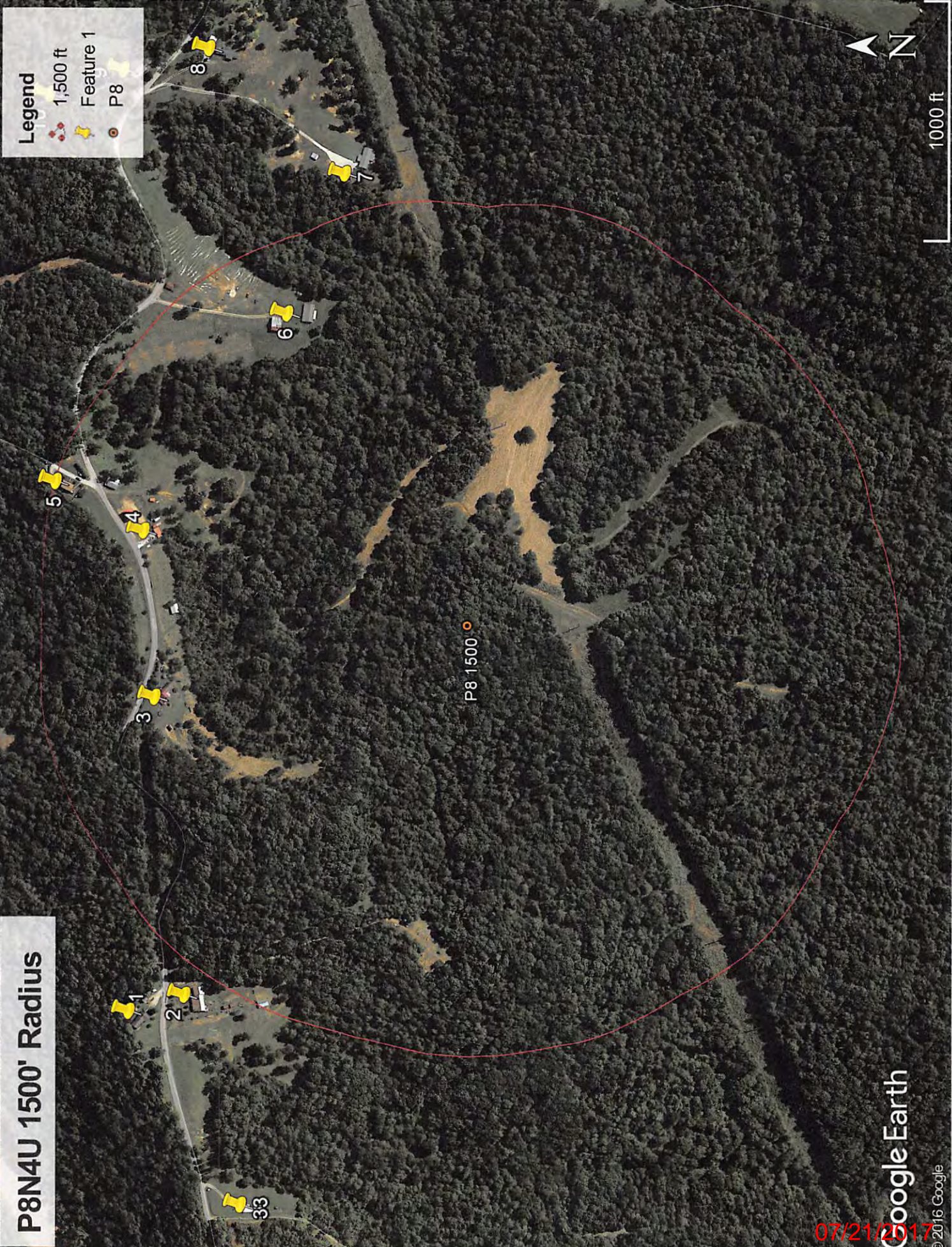


1000 ft

Legend

-  1,500 ft
-  Feature 1
-  P8

P8N4U 1500' Radius



07/21/2017

Google Earth

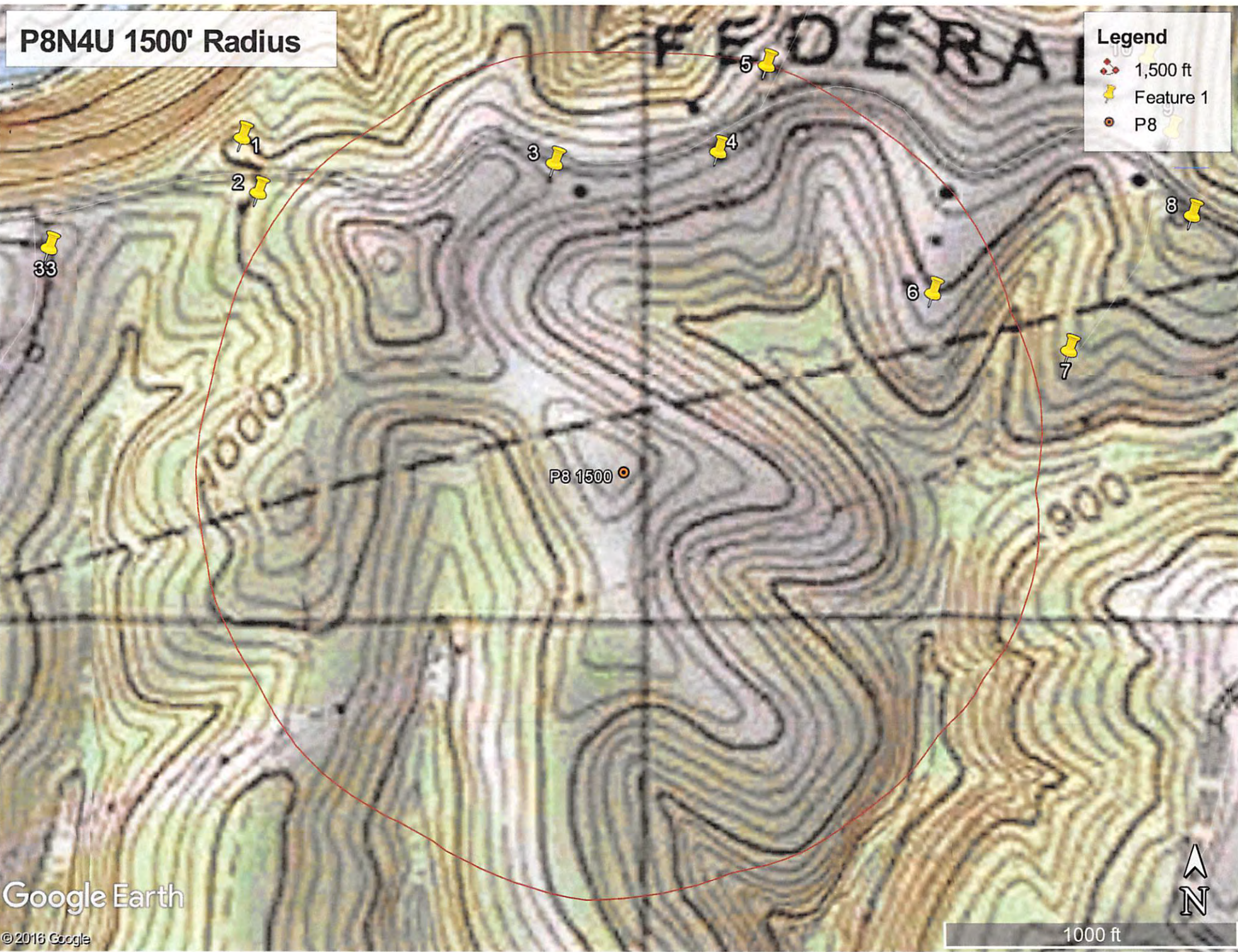
© 2016 Google

P8N4U 1500' Radius

Legend

- 1,500 ft
- Feature 1
- P8

4707302570



Google Earth

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1000 ft

WW-9
(5/16)

API Number 47 - _____
Operator's Well No. P8N4U

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

WV Department of
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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Jay-Bee Oil & Gas, Inc. OP Code 24610

Watershed (HUC 10) Outlet Middle Island Creek - Middle Ohio North Watershed Quadrangle Ben's 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 UIC2D0859721)
- 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: Yes

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

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

Additives to be used in drilling medium? Drilling Soap if necessary

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

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

-Landfill or offsite name/permit number? Meadowfill/Permit 101219WV

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 *Shane Dowell*

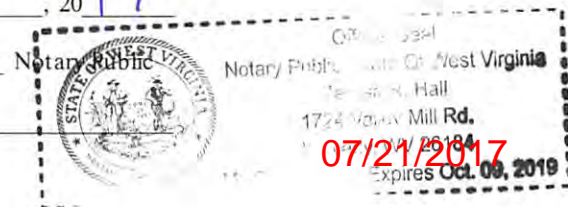
Company Official (Typed Name) Shane Dowell

Company Official Title Office Manager

Subscribed and sworn before me this 15th day of May, 20 17

Neresa R. Hall

My commission expires Oct 9th 2019



DmH
5-15-17

Proposed Revegetation Treatment: Acres Disturbed 20.8 Prevegetation pH 6.8

Lime 3 Tons/acre or to correct to pH 6.8

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 20 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	KY Bluegrass	20
Field Bloomgrass	40	Creeping Red Fescue	30
Sudangrass	40	Perennial Ryegrass	10

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: _____

Title: Oil + Gas Inspector Date: 5-15-17

Field Reviewed? Yes No

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Office of Oil and Gas

MAY 18 2017

WV Department of Environmental Protection 07/21/2017

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

Operator Name: Jay-Bee Oil & Gas, Inc.

Watershed (HUC 10): Outlet Middle Island Creek - Middle Ohio North Watershed Quad: Ben's Run 7.5'

Farm Name: Michael & Victoria Davis

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

Fluids to be discharged are produced water from the hydraulic frac. The water will be collected via piping at the wellhead, discharging directly into storage tanks.

No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater. The tanks will be installed on an earthen dike, and lined to WV DEP standards.

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

Earthen berm to be constructed around the perimeter of the pad with storm sumps to control release of the captured precipitation.

Construction and well servicing equipment will be monitored and inspected daily for leaks.
~~Earthen pit and~~ Tanks will be monitored daily for leaks. We will have spill kits on site.

g m m

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

Middle Island creek is located .5 miles northwest of drill pad.

- 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.

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MAY 18 2017

WV Department of Environmental Protection 07/21/2017

N/A

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

No waste material will be used for deicing or fill material on the property, unless allowed by another state or federal rule.

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.

During the construction phase of the location, all employees will have daily communication regarding the integrity of silt fence, including proper installation. Post construction one on one employee training will include:

- Proper containment cleanup (since the facility will be concrete)
- Proper connect and disconnect of connections to unloading brine trucks.
- Proper communication of the spill hotline, in case of emergency.
- Discussion of proper pre and post trip inspections on trucks at the facility.
- Proper understanding of the loadout procedures at the facility.
- Daily inspection of the disposal well head, including pressures.
- Proper inspection and operation of the tanks and pump(s) at the facility.

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

No fertilizer will be stored on site. Fuel, oil, and lubricants will be stored on site, but located within secondary containment. Spills from construction equipment, well treatment fluids, and produced well fluids are the only possible source of contamination to groundwater.

Inspections to be performed daily.

Signature: 

Date: 5-15-17

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Office of Oil and Gas
MAY 18 2017
WV Department of
Environmental Protection

07/21/2017

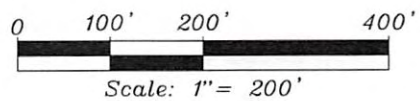


GRID NORTH

West Virginia
State Plane
NAD '83
North Zone
RTK GPS



Jay Bee
Oil & Gas
DRILLING
into the future



07/21/2017



DLF.

Dennis L. Fisher, RPE

PO Box 281

Philippi, WV 26416

Cell: 304-677-4129

E-Mail: Fisher.Engineering@gmx.com



Jackson Surveying Inc.

DmH
5-15-17

P8 WELL

Page 1 of 2 07/21/2017

GRID NORTH



28

Sta. 0+00

Line of Sight=200'

Line of Sight=400'

HOWARD & KAREN SMITH
T.M. 3/15
15.1 Ac.

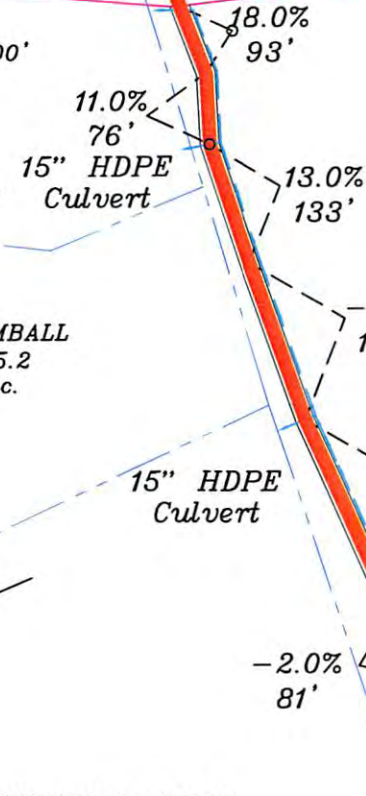
JOSHUA KIMBALL
T.M. 3/15.2
3.962 Ac.

HOWARD & KAREN SMITH
T.M. 3/15
15.1 Ac.

GERALD & JANICE BURNS
T.M. 3/16
45 Ac.

GERALD & JANICE BURNS
T.M. 3/17
20 Ac.

LINDA LOUGH
T.M. 3/29
20 Ac.

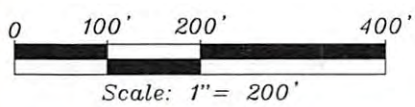


- CONSTRUCTION NOTES:**
1. Place brush downsl...
 2. Stockpile topsoil for reclamation phase.
 3. Seed and mulch all after construction.
 4. Use sumps or stone...
 5. Use rip rap protect jurisdictional waters.
 6. Use reinforced silt areas.

West Virginia State Plane
NAD '83
North Zone
RTK GPS

LEGEND

—	Property Line
G	Gas Line
P	Overhead Electrical Line
—	Right of Way Centerline
—	Ditch
—	Fence



WEST VIRGINIA 811

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07/21/2017
www.WV811.com



Jay Bee Oil & Gas
DRILLING
into the future

pe of disturbed areas.
 use on exposed slopes during
 disturbed areas as soon as possible
 check dams at culvert entrances.
 on at culvert exits except in
 fence downslope of all disturbed

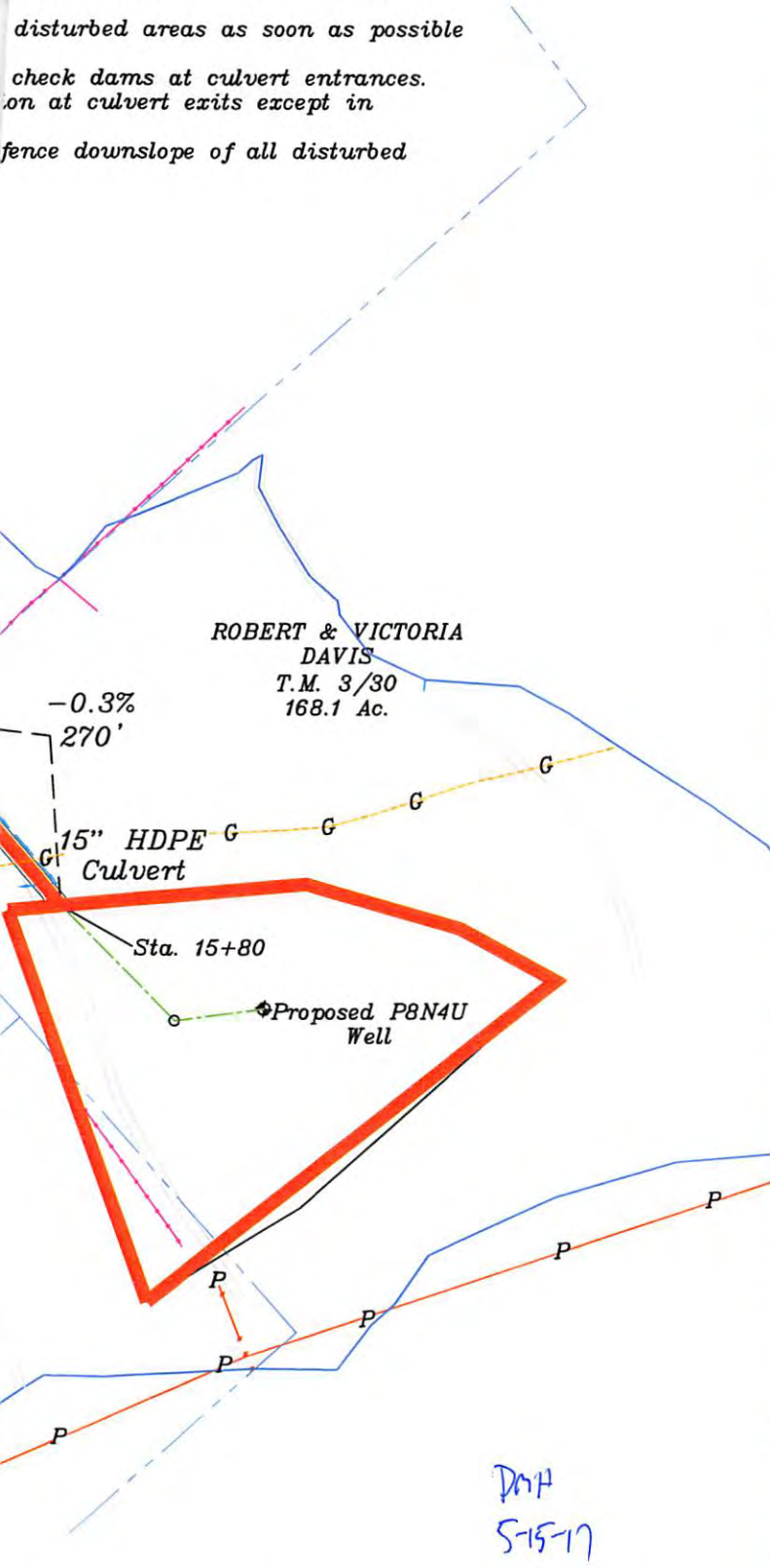


Table IV-1 Recommended seeding dates for permanent and temporary cover unless otherwise specified.

Planting Dates	Suitability
March 1 – April 15 and August 1 – October 1	Best seeding periods
April 15 – August 1	HIGH RISK -moisture stress likely
October 1 – Dec. 1	HIGH RISK - Freeze damage to young seedlings
Dec. 1 – March 1	Good seeding period. Dormant seeding.

Table 2. Acceptable fertilization recommendation in absence of a soil test.

Species	N (lbs/ac)	P2O5 (lbs/ac)	K2O(lbs/ac)	Example Rec. (per acre)
Cool Season Grass	40	80	80	400 lbs. 10-20-20
CS Grass & Legume	30	60	60	300 lbs. 10-20-20
Temporary Cover	40	40	40	200 lbs. 19-19-19

Table 3. Temporary cover suitable for establishment in West Virginia.

Species	Seeding Rate (lbs/acre)	Optimum Seeding Dates	Drainage	pH Range
Annual Ryegrass	40	3/1 - 6/15 or 8/15 - 9/15	Well - Poorly	5.5 - 7.5
Field Bromegrass	40	3/1 - 6/15 or 8/15 - 9/15	Well - Mod. Well	6.0 - 7.0
Spring Oats	96	3/1 - 6/15	Well - Poorly	5.5 - 7.0
Sudangrass	40	5/15 - 8/15	Well - Poorly	5.5 - 7.5
Winter Rye	168	8/15 - 10/15	Well - Poorly	5.5 - 7.5
Winter Wheat	180	8/15 - 11/15	Well - Mod. Well	5.5 - 7.0
Japanese Millet	30	6/15 - 8/15	Well	4.5 - 7.0
Redtop	5	3/1 - 6/15	Well	4.0 - 7.5
Annual Ryegrass	26	3/1 - 6/15	Well - Poorly	5.5 - 7.5
Spring Oats	64	3/1 - 6/15	Well - Poorly	5.5 - 7.5

NOTE: These rates should be increased by 50% if planted April 15 – August 1 and October 1 – March 1.

Table 4b. Mixtures in the table below are more wildlife and farm friendly.

Species/Mixture	Seeding Rate (lbs/acre)	Soil Drainage Preference	pH Range
KY Bluegrass/ Redtop/ Ladino Clover or Birdsfoot Trefoil	20 3 2/10	Well - Mod. Well	5.5 - 7.5
Timothy/ Alfalfa	5 12	Well - Mod. Well	6.5 - 8.0
Timothy/ Birdsfoot Trefoil	5 8	Well - Poorly	5.5 - 7.5
Orchardgrass/ Ladino Clover/ Redtop	10 2 3	Well - Mod. Well	5.5 - 7.5
Orchardgrass/ Ladino Clover	10 2	Well - Mod. Well	5.5 - 7.5
Orchardgrass/ Perennial Ryegrass	20 10	Well - Mod. Well	5.5 - 7.5
Creeping Red Fescue/ Perennial Ryegrass	30 10	Well - Mod. Well	5.5 - 7.5
Orchardgrass or Kentucky Bluegrass	20	Well - Mod. Well	6.0 - 7.5
Birdsfoot Trefoil/ Redtop/ Orchardgrass	10 5 20	Well - Mod. Well	5.5 - 7.5
Lathco Flat Pea/ Perennial Ryegrass	30 20	Well - Mod. Well	5.5 - 7.5
Lathco Flat Pea/ Orchardgrass	30 20	Well - Mod. Well	5.5 - 7.5

Mixtures listed in bold are suitable for use in shaded woodland settings, those in italics are suitable for use in filter strips.
 * Lathco Flatpea is potentially poisonous to some livestock. All legumes should be planted with proper inoculants prior to seeding.
 For unprepared seedbeds or seeding outside the optimum timeframes, add 50% more seed to the specified rate.

Table IV-5 Lime and Fertilizer Application Table

pH of Soil	Lime in Tons Per Acre	Fertilizer, Lbs. per Acre	10-20-20- or Equivalent
Above 6.0	2		500
5.0 to 6.0	3		500
Below 5.0	4		500

The pH can be determined with a portable pH testing kit or by sending the soil samples to a soil testing laboratory. When 4 tons of lime per acre are applied it must be incorporated into the soil by disking, backblading or tracking up and down the slope.

Table IV-6 Mulch Materials Rates and Uses

Material	Minimum Rates Per Acre	Coverage	Remarks
Hay or Straw	2 to 3 Tons 100 to 150 Bales	Cover 75% to 90% of Surface	Subject to Wind blowing or washing unless tied down
Wood Fiber	1000 to 1500 lbs	Cover all	For Hydroseeding
Pulp Fiber		Disturbed Areas	
Wood-Cellulose			
Recirculated Paper			

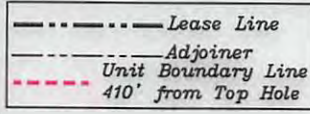
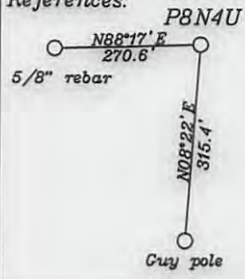
DLF.
 Dennis L. Fisher, RPE
 PO Box 281
 Philippi, WV 26416
 Cell: 304-677-4129
 E-Mail: Fisher.Engineering@gmx.com



Jackson Surveying Inc.

P8 WELL

References:



- A- Davis T.M. 3/30.1 0.14 Ac.
- B- Brewer T.M. 3/40 0.5 Ac.
- C- Petty (L.E.) T.M. 3/22 1.38 Ac.
- D- Hall (Lafayette Dist.) T.M. 4/3 27.86 Ac.
- E- Powell T.M. 3/34 12 Ac.
- F- Davis T.M. 3/32 6 Ac.

- Notes:
1. There are no water wells within 250' of the location.
 2. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
 3. No deep wells were found within 3000' of this well.
 4. Location is over 400' from all lease lines.

NUMBER	DIRECTION	DISTANCE
L1	S64°24'E	544'
L2	S19°47'W	1,050'

Surface Hole Location
 UTM NAD 83(Meters)-4360377.64 N, 489992.50 E
 UTM NAD 83(Feet)-14305672.32 N, 1607583.72 E
 Geo NAD 83- 39.392833 N, 81.116216 W

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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GPS
submeter unit

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) David L Jackson
 R.P.E. _____ P.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE May 31, 2017
 OPERATOR'S WELL NO. P8N4U
 API WELL NO. _____

WELL TYPE: OIL X GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____

LOCATION: ELEVATION 1,058.7' WATER SHED McKim Creek (HUC 10 Outlet Middle Island Creek)
 DISTRICT McKim COUNTY Pleasants
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER Robert E. Davis & Victoria Davis ACREAGE 168.111 Ac.
 OIL & GAS ROYALTY OWNER Robert E. Davis & Victoria Davis LEASE ACREAGE 168.111/2017
 LEASE NO. P5109

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Trenton ESTIMATED DEPTH TVD = 11,221'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337