

west virginia department of environmental protection

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

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

Wednesday, August 1, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

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

UNION, NJ 070830000

Re: Permit approval for P4N5 47-073-02575-00-00

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.

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.

James A. Martin

Chief

Operator's Well Number: P4N5

Farm Name: JOHN A. SMITH & EDITH U. S.

U.S. WELL NUMBER: 47-073-02575-00-00

Horizontal 6A New Drill Date Issued: 8/1/2018

API Number: 73-02575

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) 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

- This proposed activity may require permit coverage from the United States Army Corps of Engineers
 (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed
 activity.
- 2. 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 § 22-6A-5a (12), 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 73-02575

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, 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.

WW-6B (04/15)

AF	I NO. 47-			_
	OPERATO	R WELL NO.	P4N5	
	Well Pad	Name: P4		

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

1) Well Operator: Jay-Bee Oil & Gas, Ir	nc. 24610	Pleasants	Union	Ben's Run 7.5'
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: P4N5	Well F	ad Name: P4		
3) Farm Name/Surface Owner: John A. & E	dith U. Smith Public R	oad Access: An	/illa Rd/CR	7
4) Elevation, current ground: 982.1	Elevation, propose	ed post-construct	ion: 957.2	
5) Well Type (a) Gas X Other	Oil Ur	derground Stora	ige	
(b)If Gas Shallow X Horizontal X				
6) Existing Pad: Yes or No No	-		D	MH 11/8/17
7) Proposed Target Formation(s), Depth(s). Marcellus, Target Depth 5,995', 41-60' th		s and Expected I	Pressure(s):	
8) Proposed Total Vertical Depth: 5,995'				
9) Formation at Total Vertical Depth: Ma	rcellus			
10) Proposed Total Measured Depth: 17,	011'			
11) Proposed Horizontal Leg Length: 8,8	67.4'			
12) Approximate Fresh Water Strata Depth	s: 216'			RECEIVED Office of Oil and Gas
13) Method to Determine Fresh Water Dep 14) Approximate Saltwater Depths: N/A	ths: API 47-073-0079	98		/ 0 9 2017
15) Approximate Coal Seam Depths: N/A			F	WV Department of nvironmental Protection
16) Approximate Depth to Possible Void (coal mine, karst, other)	N/A		The final Protection
17) Does Proposed well location contain ed directly overlying or adjacent to an active r		No.	o <u>X</u>	
(a) If Yes, provide Mine Info: Name:				
Depth:				
Seam:				RECEIVED
Owner:				Office of Oil and Ga

NOV 09 2017

WW-6B (04/15)

API NO. 47	
OPERATOR WELL NO	O. P4N5
Well Pad Name: P4	

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	16	New	J55	40	30'	30'	8.22 CTS
Fresh Water	11 3/4	New	J55	32	300'	300'	142.25 CTS
Coal							
Intermediate	8 5/8	New	J55	24	2,000	2,000'	508.43 CTS
Production	5 1/2	New	P110	17	17,011'	17,011'	2,774 CF1000 from surface
Tubing	N/A						
Liners	N/A						

DAH 96B 11-8-17 91/8/2017

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	16	17 1/2	.495	3,000#	50	Class A	1.19
Fresh Water	11 3/4	15	.333	1,500#	1,000	Class A	1.26
Coal							
Intermediate	8 5/8	11	.264	2,950#	1,500	Class A	1.45
Production	5 1/2	7 7/8	.304	15,000#	2,500	Type 1 Cement	1.34
Tubing	N/A						
Liners	N/A						RECEIVED Gas

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WV Department of Environmental Protection

PACKERS

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

WW-6B (10/14)

API NO. 47	
OPERATOR WELL NO.	P4N5
Well Pad Name: P4	

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and Stimulate a new Horizontal Well. Using a top hole rig, we will drill top hole to kick off point by drilling the conductor, freshwater and intermediate holes. Using a directional rig we will drill the production holes.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

300-350' per stage 8,500bbls of water, 150,000-400,000lbs of sand, friction reducer, 1# per gallon, scale inhibitor and bacteria prevention 1/4# per gallon 2000 gallons 15% vol acid. 77bpm @ 6500# pressure.

Day GB

11/8/2017

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 23.66

22) Area to be disturbed for well pad only, less access road (acres): 14.90

23) Describe centralizer placement for each casing string:

Vertical - Every 500' Bow Centralizer, and 50' from top of ground. Horizontal every 42' Spiral RECEIVED Office of Oil and Gas

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WV Department of Environmental Protection

24) Describe all cement additives associated with each cement type:

15" hole for the 11 3/4 fresh water case, Class A Cement, 2% Calcium Chloride, 1/4# flake.

11" hole for the 8 5/8 intermediate base, Class A Cement, 2% Calcium Chloride

7 7/8" hole for the 5 1/2 production case, Type1 Cement, Fly Ash, Barite, Finetol 300L, R-3 Celio Flake, Sugar, CD-32, FL-62

25) Proposed borehole conditioning procedures:

Air Hole: 15" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.

Air Hole: 11" hole for the 8 5/8 intermediate base - Circulate until clean with air. If soaping, slug then dry.

7 7/8" hole for the 5 1/2 production case - Circulate with mud and sweeps for two times bottoms up. If needed weight up mud until no cuttings retrieved, then circulate with mud and sweeps for two times bottoms up.

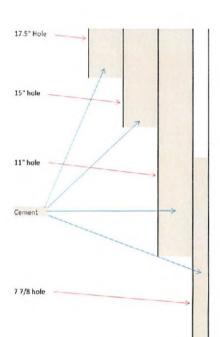
*Note: Attach additional sheets as needed.

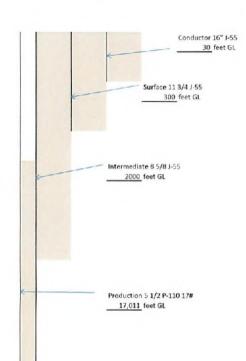
Jay-Bee Oil & Gas Inc. Well Name P4N5 GL Elevation 957.22 KB 14 feet

Date District County State

11/3/2017 Union Pleasants West Virginia

Input by: Shane Dowell





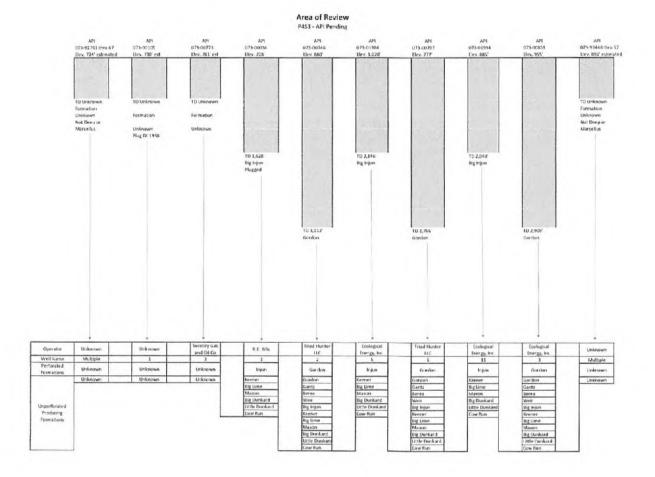
Total depth 17,011 feet GL

WV Department of Environmental Protection NOV 0 9 2017

RECEIVED Office of Oil and Gas

Well-Site Safety Plan Anti-Collision Schematic





APPENDIX

API Number 47 - 073 - 02575 Operator's Well No. P4N5

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 24610	
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 V	
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	217
Underground Injection (UIC Permit Number 47-085-09721 Reuse (at API Number	, 1
Off Site Disposal (Supply form WW-9 for disposal location)	eB
Other (Explain Using Contract Haulers (API's 47-085-05151)	1/6/201
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 47-085-09721 Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain Using Contract Haulers (API's 47-085-05151)	10/01
Will closed loop system be used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air Vertical / Horizontal OBM	
-If oil based, what type? Synthetic, petroleum, etc. ABS 40 (Aliphatic Base System) Synthetic	
Additives to be used in drilling medium? Barite, ABS MUL/VIS, Bentone990, CACL2, CalCarb,FLR, Lime,Multifiber,Permaseal,Nut Plug	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill	
-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 August 1, 2005, 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 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 Title Office Manager	ED and Gas
Subscribed and sworn before me this 6th day of November , 20)	
Notary Public, State Of West	Virginia
My commission expires Oct 9 Teresa R. Hall 1724 Valley Mill Rd. Waven 8/03/20 My Commission Expires Oct. 0	018

Operator's Well No. P4N5

Proposed Revegetation Treatme	ent: Acres Disturbed 23.66	Prevegetation pH 6	.8
Lime 2-3	Tons/acre or to correct to	pH 6.8	
Fertilizer type 10-20	-20		
Fertilizer amount_500)	_lbs/acre	
Mulch_ Hay 2	To	ns/acre	
	<u>s</u>	ieed Mixtures	
Temp	porary	Permanen	ı
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 ar provided). If water from the pit acreage, of the land application Photocopied section of involved	will be land applied, include area.	plication (unless engineered plans including edimensions (L x W x D) of the pit, and dim	this info have been ensions (L x W), a
Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application	will be land applied, include area.	plication (unless engineered plans including edimensions (L x W x D) of the pit, and dim	this info have been ensions (L x W), a
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Maps(s) of road, location, pit ar provided). If water from the pit acreage, of the land application Photocopied section of involved Plan Approved by:	will be land applied, include area. d 7.5' topographic sheet.	Date: 11-8-17	office

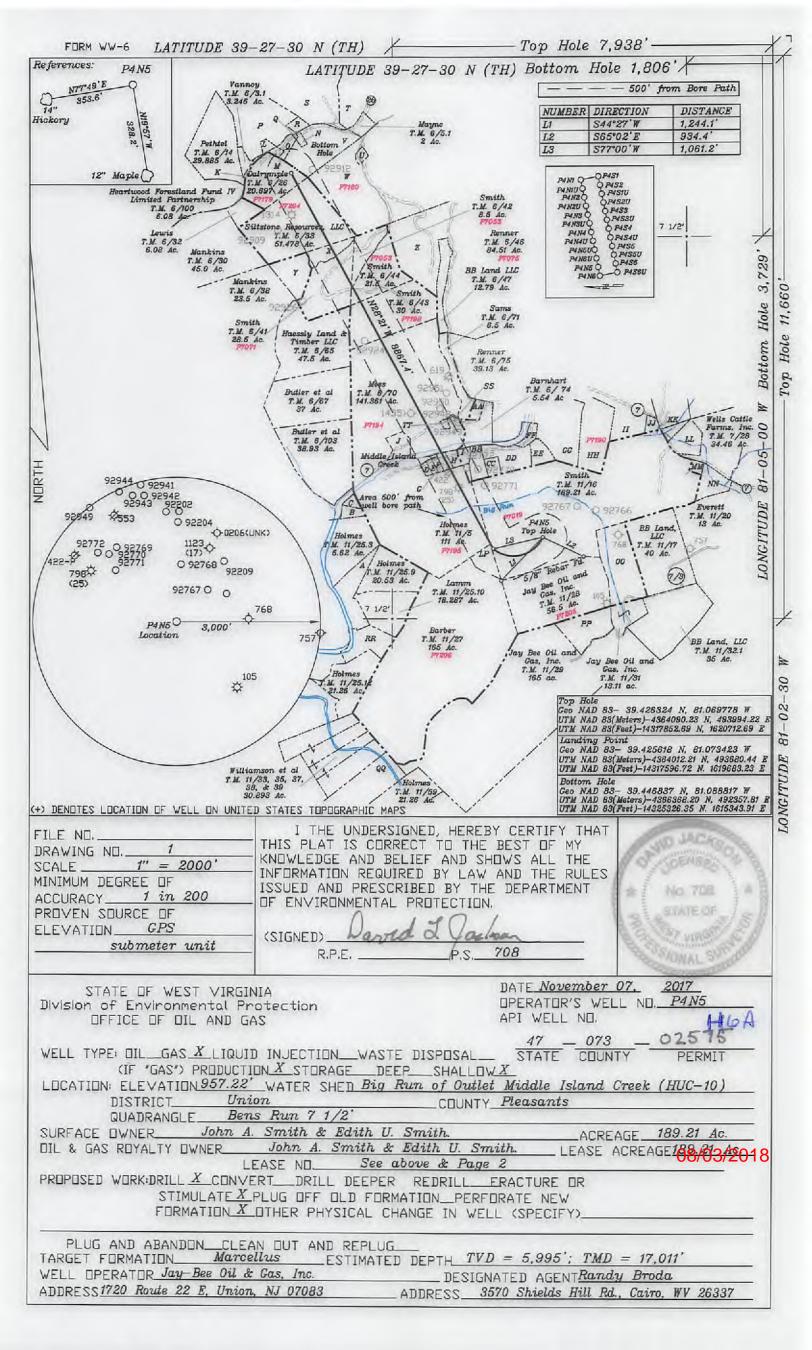
P4N5

WELL SITE SAFETY PLAN

JAY-BEE OIL & GAS, INC

Office of Oil and Gas

NOV 0 9 2017

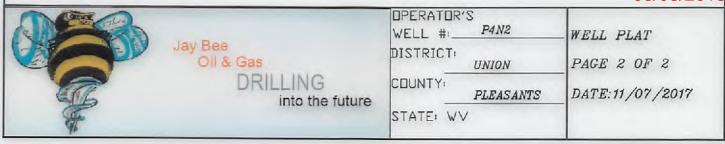


JACKSON SURVEYING INC. P.O. Box 1460 677 W. Main St. Clarksburg, WV 26302 304-623-5851

RACT	OWNER	TM PARCEL	ACRES	Lease Numbers
A	MIXER ET AL	11 / 25.2		
В	HOLMES	11 / 4	1.0	
C	HOLMES	11 / 3.1	1.75	
D	VERARDI & WINEMAN	11 / 6	0.92	P7195A
E	HOLMES	11 / 7	1.0	P7195
F	HOLMES	11 / 8	5.85	P7195
G	CORRIGAN	11 / 9	0.92	P7195B
H	CULPEPPER CATTLE COMPANY INC	11 / 10	0.92	P7195C
I	CULPEPPER CATTLE COMPANY INC	11 / 11	1.37	
J	LONAS	6 / 70.1		P7194B
K	VANNOY	6 / 26.1	11000	
L	CEMETERY	6 / 104	1.0	
M	CECIL	6 / 27	1.0	
N	URBAN	6 / 17.1	1.0	
0	DALRYMPLE ET AL	6 / 15	2.86	
P	RENNER	6/3	59.314	
Q	URBAN	6 / 16	0.14	
R	CARROLL & RYAN	6 / 3.2	2.062	
S	URBAN	6/4	49.61	
T	LEECH	6/5	22.478	
U	GREEN	6 / 28.1		
V	GREEN	6 / 17	21.567	
W	PAYNE & GREEN	6/28	66.848	
X	SMITH	6 / 40	6.5	P7055
Y	MANKINS	6 / 39	25.5	11000
Z	BREMEN & ROBERTSON	6/45	30.0	P7185
AA	BARNHART	6 / 73	1.25	
BB	BLAKE	11 / 12	5.0	
CC	BOWIE	11 / 13	3.25	
DD	BOWIE	11 / 14	12.855	
EE	BOWIE	6 / 92	1.0	
FF	BOWIE	6 / 91	1.95	
GG	RENNER	6 / 90.3		P7072
HH	SMITH	6 / 106	21.46	
II	BUZZARD	6 / 84	10.5	
JJ	REGULAR BAPTIST CHURCH OF JESUS CHRIST	6 / 108	2.0	
KK	JAY BEE OIL AND GAS, LLC.	6 / 85	27.53	
LL	CORRIGAN	6 / 105	2.165	
MM	LAUER	11 / 16.1	-	
NN	LAUER	11 / 16.2		
00	BB LAND LLC	11 / 18		P7048
PP	JAY BEE OIL AND GAS INC	11 / 30	25.14	
QQ	HALL	11 / 34	38.34	
RR	HOLMES	11 / 25.11		
SS	JENSEN	6 / 68	0.5	P7194C
TT	JENSEN & BARNHART	6 / 69	1.0	P7194D

73-02575 HGA

08/03/2018



INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) 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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
P7019	John & Edith Smith	BB Land, LLC	12.5%	298-532
P7206	Hazel Bunner	BB Land, LLC	12.5%	318-620
P7195	Roger & Kimberly Holmes	BB Land, LLC	12.5%	316-648
P7195B	Jerry Corrigan	BB Land, LLC	12.5%	321-227
P7194	Sarah E. Mees	BB Land, LLC	12.5%	307-605
P7198	Brady A. Smith	BB Land, LLC	12.5%	310-667

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 2018
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

Office of Oil and Gas

WV Dept. of Environmental Protection

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: Jay-Bee Oil & Gas, Inc.

By: Shane Dowell

Its: Office Manager

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee,	etc. Royalty	Book/Page
P7053	Donald Wagner	BB Land, LLC	12.5%	310-667
P7071	Ridgetop Capital IV, LP	BB Land, LLC	12.5%	294-254
P7055	Brady A. Smith	BB Land, LLC	12.5%	307-387
P7204	William Theodore Clovis	BB Land, LLC	12.5%	310-675
P7179	BB Land, LLC	BB Land, LLC	12.5%	301-112
Affidavit	BB Land, LLC	Jay-Bee Oil & Gas, Inc	Received	

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

2 7 2018

Office of Oil and Gas

Office of Oil and Gas

Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application for the proposed well work addressed in this application.

Office of Oil and Gas

Office of Oil and O

- 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

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: Jay-Bee Oil & Gas, Inc

By: Shane Dowell

Its: Office Manager

Page Y of 2

<u>AFFIDAVIT FILED PURSUANT TO</u> 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 P4N4, P4N4U, P4N5, P4S3, P4S4, P4S4U, wells (API No(s). to be determined), on Form WW-6A1.
- 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 received by or allowed to the owner of the working interest at the wellhead of 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 of 9 2017 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.

1
Further affiants sayeth naught.
andy Broda, President of Jay-Bee Oil & Gas, Inc.
_
Taken, subscribed and sworn to before me, the undersigned Notary Public, this 25 day
Fugust, 2017 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf
the corporation.
My commission expires: April 18, 2022 Commissioner for West Virginia Shane M. Dowell Porkersburg, WV My Commission Expires
April 18, 2022
MI CO
NOTARY PUBLIC
andy Broda, Managing Member of BB Land, LLC
· ·
Taken, subscribed and sworn to before me, the undersigned Notary Public, this 25 day
August, 2017 by Randy Broda, Managing Member of BB Land, LLC, on
half of the company.
My commission expires:
()
NOTARY PUBLIC

RECEIVED Office of Oil and Gas

NOV 0 9 2017



JAY-BEE OIL & GAS, INC.

November 3, 2017

Permitting Office Office of Oil and Gas West Virginia Dept. of Environmental Protection 601 57th Street SE Charleston, WV 25304

RE: P4N5 Well

Permitting Office:

As you know we have applied for a well permit for the P4N5 Well in Pleasants County, West Virginia. This pad is located on what we call the P7019 tract. County Route 7, 7/2 and 3/4 run north of this tract and our proposed well leg runs under these roadways.

You have requested that we review the courthouse records to determine if the Department of Highways has any right to the minerals underneath this section of roadway. Our outside counsel has reviewed documents in the Pleasants County Courthouse and could find no agreement that conveys mineral interests to the Department of Highways. Therefore Jay-Bee believes it has obtained leases from all mineral interest holders necessary to proceed with drilling on this tract after the permit is issued.

If you would have any questions concerning this matter, please feel free to contact our office at the numbers listed below.

Sincerely,

Shane Dowell Office Manager

in sold

RECEIVED Office of Oil and Gas

NOV 0 9 2017

WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notice	ce Certification: 11/03/2017	API No. 47			
		Operator's Well No. P4N5			
		Well Pad Name: P4			
Notice has b	oeen given:				
Pursuant to th	e provisions in West Virginia Code	§ 22-6A, the Operator has provided the required parties	with the Notice Forms listed		
	tract of land as follows:				
State:	West Virginia	UTM NAD 83 Easting: 493994.22			
County:	Pleasants	Northing: 4364090.23			
District:	Union	Public Road Access: Arvilla Rd/CR 7			
Quadrangle:	Bens Run 7.5'	Generally used farm name: John & Edith St	nith		
Watershed:	Middle Island Creek				
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface described by subsections (b) and (c), surface owner notice of entry to sof subsection (b), section sixteen	shall contain the following information: (14) A certifical ribed in subdivisions (1), (2) and (4), subsection (b), subsection sixteen of this article; (ii) that the requirement was survey pursuant to subsection (a), section ten of this article were waived in writing by the surface of tender proof of and certify to the secretary that the notion ant.	ection ten of this article, the as deemed satisfied as a resul- ticle six-a; or (iii) the notice owner; and Pursuant to West		
	West Virginia Code § 22-6A, the O rator has properly served the requir	perator has attached proof to this Notice Certification ed parties with the following:	OOC OFFICE USE		
*PLEASE CHE	ECK ALL THAT APPLY		OOG OFFICE USE ONLY		
☐ 1. NO1	TICE OF SEISMIC ACTIVITY OF	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED		
■ 2. NO	ΓICE OF ENTRY FOR PLAT SUR	VEY or \square NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED		
☐ 3. NO	TICE OF INTENT TO DRILL or	■ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	☐ RECEIVED/ NOT REQUIRED		
		☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)			
■ 4. NO1	ΓICE OF PLANNED OPERATION	RECEIVED Office of Oil and	RECEIVED		
■ 5. PUB	BLIC NOTICE	,, ₀₀ , 0 9 20	\ ☐ RECEIVED		
■ 6. NOT	TICE OF APPLICATION	W Departme Environmental Pr	nt of checklonRECEIVED		

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby given:

	alse information, including the possibility of		d complete. I am aware that there are significant penalties onment.
Well Operator:	Jay-Bee Oil & Gas, Inc.	Address:	3570 Shields Hill Rd.
By:	Shane Dowell		Cairo, WV 26337
Its:	Office Manager	Facsimile:	304-628-3119
Telephone:	304-628-3111	Email:	sdowell@jaybeeoil.com
STATE OF THE STATE	Notary Public, State Of West Virginia Teresa R. Hall 1724 Valley Mill Rd.	Leresa R	orn before me this 8 th day of <u>November 2017.</u> Notary Public Aprires Not 1 th 2019

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

NOV 0 9 2017

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WW-6A (9-13) API NO. 47-___ OPERATOR WELL NO. P4N5
Well Pad Name: P4

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Not	ice Time Requirem	ent: notice shall be provi	ided no later tha	an the filing date of permit application.	
	e of Notice: 11-3-2017 ice of:	_ Date Permit Applica	tion Filed: 11-3	-2017	
7	PERMIT FOR AN			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	ivery method pursu	ant to West Virginia C	ode § 22-6A-10	O(b)	
	PERSONAL	☑ REGISTERED		OD OF DELIVERY THAT REQUIRES	
	SERVICE	MAIL	RECE	IPT OR SIGNATURE CONFIRMATION	
oil a desc oper mor well impe have prov prop subs reco prov Cod	and gas leasehold being tribed in the erosion a rator or lessee, in the ecoal seams; (4) The work, if the surface coundment or pit as detailed a water well, spring ride water for consumposed well work activisection (b) of this securds of the sheriff requision of this article to e. R. § 35-8-5.7.a requirements.	and developed by the proposed developed by the proposed developed by the proposed developed by the tract of land on very content of record of the section of the process of the section of the proposed developed develo	sed well work, is submitted pursus which the well purface tract or tractional this article; (5) a cated within one stic animals; and if more than three ands, the application in holder is not rator shall also properties.	ated; (2) The owners of record of the surface of the surface tract is to be used for roads or of ant to subsection (c), section seven of this are roposed to be drilled is located [sic] is known acts overlying the oil and gas leasehold being ruction, enlargement, alteration, repair, removed any surface owner or water purveyor who is thousand five hundred feet of the center of the different of the control of any natural gas storage the tenants in common or other co-owners of the may serve the documents required upon the eight, article one, chapter eleven-a of this control of the well site Safety Plan ("WSSP") that provide the Well Site Safety Plan ("WSSP") that provided in section 15 of this rule.	other land disturbance as ticle; (3) The coal owner, on to be underlain by one or g developed by the proposed oval or abandonment of any known to the applicant to the well pad which is used to field within which the interests described in the person described in the ode. (2) Notwithstanding any or is the landowner. W. Va.
		/	S Plan Notice	☐ Well Plat Notice is hereby provide	ed to:
	URFACE OWNER(ne: John & Edith Smith	s) /		COAL OWNER OR LESSEE	
	ress: 4556 Arvilla Rd		-	Name:Address:	
	dly, WV 26146		_	Address:	
Nan			-	□ COAL OPERATOR	
	ress:			Name:	RECEIVED
				Address:	Office of Oil and Gas
	URFACE OWNER(s) (Road and/or Other Di	sturbance)		11611 0 0 2017
	ne: John & Edith Smith	C Assert Comments of Comments of		SURFACE OWNER OF WATER WE	ELL NOV 0 9 2017
Add	ress: 4556 Arvilla Rd			AND/OR WATER PURVEYOR(s)	/ water and an administration
Friend	dly, WV 26146			Name: John & Edith Smith	WV Department of Environmental Protection
Nan	ne:			Address: 4556 Arvilla Rd	
Add	ress:			Friendly, WV 26146	
			<u> </u>	☐ OPERATOR OF ANY NATURAL G.	
Nan	ne:	s) (Impoundments or Pits	_	Name:Address:	
Add	ress:		-	*Please attach additional forms if necess	
				CICASE ADACH ADDIDODAL TORDS IT DECESS	WILV.

API NO. 47	
API NO. 47- OPERATOR WELL NO. Well Pad Name; P4	PANSOFFICE OF CHIVED
Well Pad Name; P4	and Gas
	NOV 0 9 2017

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied floring for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake, (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47	_
OPERATOR WELL NO. P4N5	
Well Pad Name: P4	

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments with the secretary at t

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

NOV 0 9 2017

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47	
OPERATOR WELL NO.	P4N5
Well Pad Name: P4	

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Office of Oil and Gas

NOV 0 9 2017

WV Department of Environmental Protection

API NO. 47-OPERATOR WELL NO. P4N5 Well Pad Name: P4

Notice is hereby given by:

Well Operator: Jay-Bee Oil & Gas. Inc.

Telephone: 304-628-3111 Email: sdowell@jaybeeoil.com Address: 3570 Shields Hill Rd. Cairo, WV 26337

Facsimile: 304-628-3119

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

My Commission Expires Oct. 09, 2019

Official Seal Notary Public, State Of West Virginia Teresa R. Hall 1724 Valley Mill Rd. Waverly, WV 26184

Subscribed and sworn before me this 84h day of nov. 2019 eresa R. Hall

My Commission Expires Oct 9

Office of Oil and Gas

NOV 0 9 2017

P4 WW6A Notices

First	Surname	Address	City	State	Zip
John & Edith Smith		4556 Arvilla Rd	Friendly	wv	26146
BB Land, LLC		75 Crosswinds Drive	Bridgeport	wv	26330
Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd	Cairo	wv	26337
Linda Lou Fetty et al		2385 Left French Creek Road	St. Marys	wv	26170
HFP, LLC		PO Box 418	Kenova	WI	25530
Darin Barber		11378 Dupont Rd.	Washington	WV	26181
Roger & Kimberly Holmes		1049 Sugar Valley Rd	Friendly	wv	26146
Douglas & Lori Renner		27 Renner Lane	Friendly	wv	26146
Pamela Jo & Charles Bowie		261 Sugar Valley Rd	Friendly	WV	26146
Pamela Jo	Bowie	261 Sugar Valley Rd	Friendly	wv	26146
Melissa	Blake	283 Sugar Valley Rd	Friendly	wv	26146

Office of Oil and Gas

WW-70 Rev. 7/01

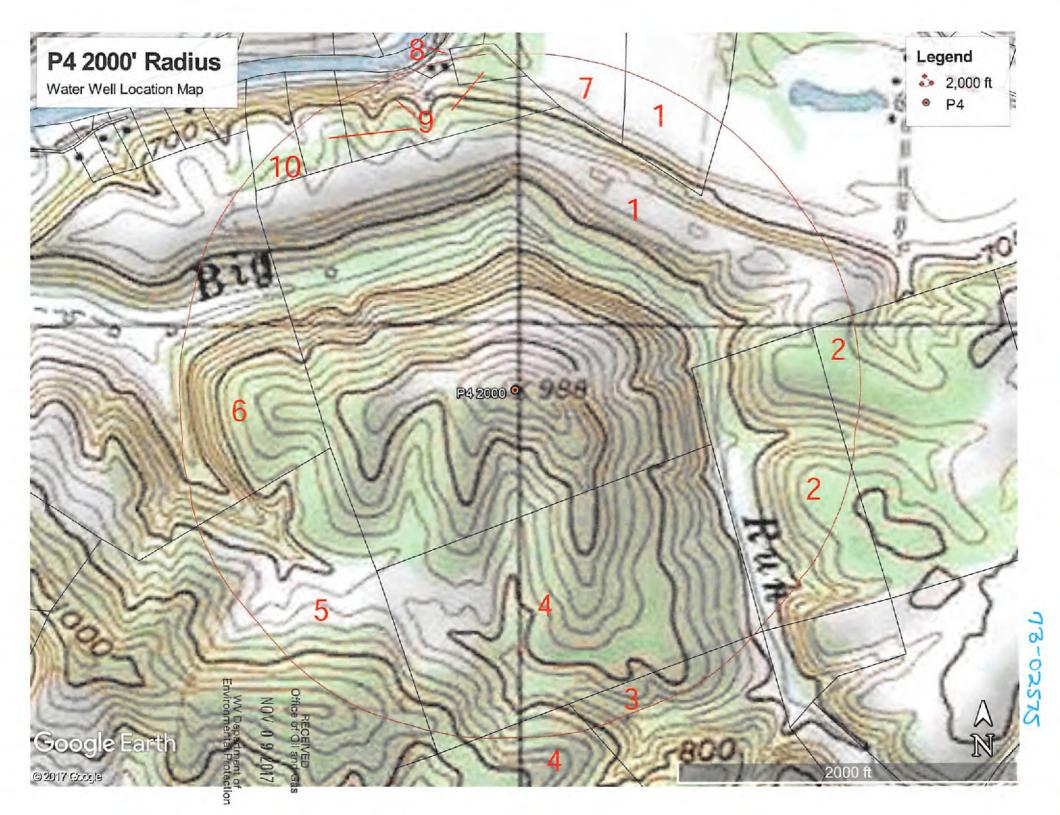
Affidavit of Personal Service

State Of West Virginia	
County Of Ritchie	
The undersigned, being first duly sworn, says that the uncomplete copy of all sides of	ndersigned served a true and
(1) Notice on Form WW-2(A)/ WW-3(A)/ WW-4(A)/ W (2) Application on Form WW-2(B) X / WW-3(B)/ WW-4(B)/ W (3) Plat showing the well location on Form WW-6, and x (4) Construction and Reclamation Plan on Form WW-9 X (5) WW6A1 X WMPX WW6RW/AWall with respect to operator's Well No. PANZ, PANZU, PANS, PASZ, PASZ	W-5(B)/ WW-6(B) X
Jay-Bee Oil & Gas, Inc.	
by delivering the same in Ritchie County, State of on the 8-25-2017 day of August , 20 17 in the manner spec	E West Virginia cified below.
[COMPLETE THE APPROPRIATE SECTION]	
[COMPLETE THE APPROPRIATE SECTION]	
For an individual: [] Handing it to him/ her/ or, because he/ she offered it, by leaving it in his/ her/ presence.	e/ refused to take it when
[] Handing it to a member of his or her family above the who resides at the usual place of aboverved, and asking the family member to give it to the person to possible.	ode of the person to be
For a partnership: [] Handing it to, a partner because the partner refused to take it when I handed it over, b of the partner.	r of the partnership or, by leaving it in the presence
For a limited partnership: [] Handing it to the general partner, named because the general partner refused to take it when I tried to in the presence of the general partner.	, or, hand it over, by leaving it
For a corporation: [X] Handing it to the corporation's employee X / officer in fact / named Travis Yost	r/ director/ attorney
signature of person exe	ecuting service
Taken, subscribed and sworn before me this & day of ()	11900t 2017:
Notary Publ	ic Office of Oil and O
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)	NUV 0 9 2013
	Official Scal Official Scal Ary Public, State Of West Virginia Talesa R. Hall 1724 Valley Mili Rd. Waverly, WV 26184 commission Expires Oct. 09, 2019

WW-70 Rev. 7/01

Affidavit of Personal Service

State Of West Virginia
County Of Harrison
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of
(1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A)X WSSP X (2) Application on Form WW-2(B) X / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) X E&S X (3) Plat showing the well location on Form WW-6, and x WW-6A5 x MSDS x (4) Construction and Reclamation Plan on Form WW-9 X (5) WW6A1 X WMPX WW6RW/AW W6RW/AW WW6RW/AW WW6RW/AW WW6RW/AW WW6RW/AW WW6RW/AW WW6RW/AW WW6RW/AW WW6RW/AW W6RW/AW W6
Jay-Bee Oil & Gas, Inc.
by delivering the same in Harrison County, State of West Virginia
on the 0-25-2017 day of August , 20 17 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual:
[] Handing it to him _ / her _ / or, because he _ / she _ / refused to take it when offered it, by leaving it in his _ / her _ / presence.
[] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to
For a limited partnership: [] Handing it to the general partner, named , or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation: [X] Handing it to the corporation's employee/ officer_X_/ director/ attorney in fact/ named Brian Paugh
(Signature of person executing service)
Taken, subscribed and sworn before me this 30 day of Huguard 2017. My commission expires Cct 9 2019
Notary Public Office of Oil and Gar
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)
Official Seal
Official Seal WV Department of Teresa R, Hall 1724 Valley Mill Rd. Waverly, WV 26184 My Commission Expires Oct. 09, 2019



Reference	Map	Parcel	First	Surname	Address	City	State	Zip
1	11; 6	16; 106	John & Edith	Smith	4556 Arvilla Rd	Friendly	wv	26146
2	11	32.1, 18	BB Land, LLC		75 Crosswinds Drive	Bridgeport	wv	26330
3	11	30, 31	Jay-Bee Oil & Gas, Inc		3570 Shields Hill Rd	Cairo	wv	26337
4	11	28, 29	HFP, LLC		PO Box 418	Kenova	WI	25530
5	11	27	Darin	Barber	11378 Dupont Rd.	Washington	wv	26181
6	11	5	Roger & Kimberly	Holmes	1049 Sugar Valley Rd	Friendly	wv	26146
7	6	90.3	Douglas & Lori	Renner	27 Renner Lane	Friendly	wv	26146
8	6	91	Pamela Jo & Charles	Bowie	261 Sugar Valley Rd	Friendly	wv	26146
9	6; 11	92; 14, 13	Pamela Jo	Bowie	261 Sugar Valley Rd	Friendly	WV	26146
10	11	12	Melissa	Blake	283 Sugar Valley Rd	Friendly	wv	26146

WW-2B1	Well No. P4N5

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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

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

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

	Contractor Name		Reliance Laboratories	
Х	Well operator's pr	rivate laboratory		
	Well Operator	Jay-Bee Oil & Gas, IN		
	Address	3570 Shields Hill Rd /	1720 Route 22 East	
		Cairo, WV 26337 /	Union, NJ 07083	
	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 please indicate such.

NOV 0 9 2017



WW-6A3 (1/12) Operator Well No. P4N5. P4N5U

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry Date of Noti	ce: 10/17/2017	Date of Pla	nned Entry: 10/24/2017		
Delivery me	thod pursuant	to West Virginia C	ode § 22-6A-10a		
□ PERSO SERVIO	7.1	REGISTERED MAIL	METHOD OF DEI RECEIPT OR SIGN		3
on to the surf but no more to beneath such owner of min and Sediment Secretary, whenable the su	ace tract to cond than forty-five d tract that has fil erals underlying t Control Manua tich statement sh rface owner to o	duct any plat survey ays prior to such en ed a declaration pur g such tract in the co- al and the statutes ar hall include contact btain copies from the	s required pursuant to this a try to: (1) The surface ownersuant to section thirty-six, a punty tax records. The notion and rules related to oil and gatinformation, including the a	rticle. Such notice r of such tract; (2) rticle six, chapter to e shall include a st s exploration and p	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the age on the Secretary's web site, to
	eby provided to		П		
	CE OWNER(s)			L OWNER OR LE	
Name:			Name:		
Address:					
Name:			- 1 T		
Address:			■ MINI	ERAL OWNER(s)	
Name:			_ Name: Sai	223 Autumn Run Rd Friend	NV WV 26146
Address:			Address.	220 Addition Roll No. 1 Tieric	3,444 20140
				h additional forms if ne	ecessary
Notice is he		1 000 (1 10)			
ursuant to w	on the tract of la	de § 22-6A-10(a), n	otice is hereby given that th	e undersigned wel	l operator is planning entry to conduct
State:	West Virginia	ilid as follows:	Approx Latit	ida & Longitudo:	39.426306 x -81.069806
County:	Pleasants	-	Public Road A		Arvilla Rd.
District:	23474103			100033.	Middle Island Creek
	Ben's Run 7.5'		Generally use	d farm name:	Middle Island Greek
nay be obtair Charleston, W obtained from	ed from the Sec V 25304 (304- the Secretary by	retary, at the WV D 926-0450). Copies y visiting <u>www.dep</u>	epartment of Environmenta	Protection headque on al information r	il and gas exploration and production uarters, located at 601 57th Street, SE, elated to horizontal drilling may be RECEIVED Office of Oil and Ga
volice is her	reby given by:		0/22		
	': Jay-Bee Oil & Gas	, Inc.	Address:	3570 Shields Hill Rd.	NOV 0 9 2017
Well Operator					
Well Operator Telephone: Email:	304-628-3111		Facsimile:	Cairo, WV 26337	WV Department of

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

P4N5 Plat Notice Recipients

Surface Owner	Address	City	State	Zip
Sarah E. Mees	223 Autumn Run Rd	Friendly	WV	26146
Brady A. Smith	2374 US Route 68S	Xenia	ОН	4538
Wilma Jane Benefiel	417 Susan St.	New Martinsville	WV	2615
Ridgetop Capital IV LP	PO Box 1183	McMurray	PA	1531
Ridgetop Capital IV LP	PO Box 1183	McMurray	PA	1531
BB Land LLC	PO Box 380	Bridgeport	WV	2633
Brady A. Smith	2374 US Route 68S	Xenia	ОН	4538
William Theodore Clovis	170 Live Oak Lane	St. Marys	wv	2617
BB Land LLC	PO Box 380	Bridgeport	wv	2633
Patricia Gail Price	37 Riverside Dr. W.	Madison	wv	2513
Kathy Barnhart Law	4049 Benedict Lane	Oak Harbour	WA	9817
Betty L. Howell	2219 Lindy Circle	St. Marys	wv	2617
Michael Evan Barnhart	PO Box 1318	Anna Maria	FL	3421
Robert Dean Northcraft	319 Creekside Dr.	Keller	TX	7624
Barbara Ann Hutchison	140 Mitchell Dr.	Newport	ОН	4576
Ralph Alan Bennett	12400 Sunridge Circle	Strongsville	ОН	4413
William P. Turner	195 Poinciana St.	Newport	ОН	4576
Gala L. Buchanan	111 Ardmore Avenue	Weirton	wv	2606
Dorothy Marie Oberg	227 Woodridge Drive E-204	Wintersville	ОН	4395
Beverly Bass	880 Highway 105E #14	Sour Lake	TX	7765
Barbara Ann Barnhart Korn	P.O. Box 518	Norfork	AR	7265
Cynthia Lynn Barnhart Corkran	2 Button Bush Court	Wimberley	TX	7867
Crystal Dawn Barnes	606 1/2 Riverside Dr.	St. Marys	wv	2617
Elizabeth Joy Peckens	100 Sandpiper Vlg.	St. Marys	wv	2617
Denver Clark Adams	410 1/2 Gallaher St.	St. Marys	WV	2617
Lloyd C Adams, Jr.	10144 Wick Road	Friendly	wv	2614
Pamela Sharon Hanna	832 Herman Ave	Bowling Green	KY	4210
Doreen Lee Freeman	465 Walnut Point Road	Heathsville	VA	2247
Thomas G. Bennett	170 Powers Rd.	Weirton	WV	2606
George Steven Adams	1987 Broad Run Rd.	St. Marys	wv	2617
Gregory Barnhart	3625 Winged Foot Drive	Beaumont	TX	7770
Roger Gerald Barnhart	P.O. Box 69085	Odessa	TX	7976
David B. Barnhart	1509 Round Hill Rd.	Oak Hill	wv	2590
Brian Nelson Barnhart	1501 Shan Dr. S.	Mobile	AL	3669
Christopher Reed Barnhart	3710 Watonga Parkway	Houston	TX	7709
Robert Wilmer Bennett	91 Cherry Hill Road	Davison	MI	4842
Roger Philip Bennett	139 Walker Manor Circle	Colliers	WV	2603
Beverly J. Bierce	122 Warwick Ln	East Palatka	FL	3213
Louis F. Bowen	213 Stephens St.	Paden City	WV	2615
James W. Dearth	HC 69 Box 12	Bens Run	wv	2614
Jerry H. Graham	830 Cole Coffman Rd.	Marietta	ОН	4575
Janey B. Graham	109 Lindsey Ave.	Marietta	ОН	4575
Ted G. Howell	2839 Eldersville Rd.	Follansbee	wv	2603
Kenneth R. Howell	89 Braxton Rd.	Weirton	wv	2606
Charles E. Howell	1000 Harmon Creek Rd.	Colliers	wv	2603
Irene Pearl McPherson	4507 7th Avenue	Vienna	wv	2610
Julian O. Northcraft	1244 Arbor Rd., Apt B404	Winston-Salem	NC	2710
Junior Alvin Nichols POA Joyce Ann Burleigh	1519 Glendale Drive	Fairborn	ОН	4532
Judith L. Thompson	89 Mountaineer Way	Williamstown	wv	2618
Timothy Earl Turner	310 Danas Run Rd.	Newport	ОН	4576
Smith & Edith U. Smith	4556 Arvilla Road	Friendly	wv	26146

RECEIVED Office of Oil and Gas

NOV 0 9 2017



WW-6A5 (1/12) Operator Well No. P4N5

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice T Date of I	ime Re Notice:	quirement: notice sh	all be provided n Date Permit A	no later than the f application Filed	iling l: 17/6	date of permit	application.
Delivery	metho	d pursuant to West	Virginia Code §	22-6A-16(c)			
■ CF	RTIFIE	ED MAIL		HAND			
		RECEIPT REQUEST	ΓED	DELIVERY			
return re the plant required drilling of damages (d) The r of notice	ceipt red ned ope to be proof a hor to the s notices r	quested or hand deliveration. The notice revolved by subsection izontal well; and (3) surface affected by oil	ery, give the surf equired by this s (b), section ten of A proposed surf and gas operation n shall be given	face owner whose subsection shall of this article to a face use and con ons to the extent to to the surface ov	e land inclu surf inpens the da	d will be used for de: (1) A copy face owner whose sation agreement amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the ac	ddress li	sted in the records of		time of notice):			
Name: Jo						BB Land, LLC	
Address: Friendly, W		lla Rd				s: 75 Crosswinds Driv et, WV 26330	ve
- monday, to	7 20110				agepo	1111 20000	
	n on the	eby given: Vest Virginia Code § 22-6A-16(c), notice is herel the surface owner's land for the purpose of drilli West Virginia		of drilling a hori	ng a horizontal well on the tra LITM NAD 83 Easting:		
District:	_	easants		Public R	Public Road	Northing:	Arvilla Rd/CR 7
Quadran	_	ens Run 7.5'			-0.00	ed farm name:	John & Edith Smith
Watersho	_	ddle Island Creek					
Pursuant to be pro horizonta surface a informat	to Wes ovided al well; affected ion rela rters, lo	by W. Va. Code § 2 and (3) A proposed so by oil and gas opera ted to horizontal drill cated at 601 57 th Str	2-6A-10(b) to a urface use and co tions to the extending may be obta	surface owner wompensation agree on the damages a ained from the S	vhose eeme are co	e land will be u ent containing ar ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-drilling-number-10
Well Op	erator:	Jay-Bee Oil & Gas, Inc. 304-628-3111		Addre	ess:	3570 Shields Hill Rd.	
Telephor	ne:					Cairo, WV 26337	
Email:		sdowell@jaybeeoil.com		Facsir	nile:	304-628-3119	
The Offi- duties. Y	ce of Oi our per	sonal information ma	y be disclosed t	to other State ag	enci	es or third parti	telephone number, as part of our regulatory es in the normal course of business or as aformation. Act requests. Our office will

appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 0 9 2017

Office of Oil and Gas

WW-6A5 (1/12) Operator Well No. P4N5

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	me Requirement: n otice: 11/08/2017	otice shall be provided n Date Permit A	o later than the filing pplication Filed: 11/0		application.
Delivery i	method pursuant to	West Virginia Code §	22-6A-16(c)		
■ CER	RTIFIED MAIL		HAND		
	TURN RECEIPT RE	EQUESTED	DELIVERY		
return received the planner required to drilling of damages to (d) The notice.	eipt requested or har ed operation. The re- to be provided by sub- f a horizontal well; to the surface affected otices required by the	nd delivery, give the surf- notice required by this so- section (b), section ten of and (3) A proposed surf- id by oil and gas operation	ace owner whose land ubsection shall inclu of this article to a surf ace use and compens are to the extent the da to the surface owner a	I will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
(at the add	lress listed in the rec	ords of the sheriff at the	time of notice):		
	a Lou Fetty et al			Jay-Bee Oil & Gas, Inc	
Address: St. Marys WV	2385 Left French Creek Road		Address	S: 3570 Shields Hill R	d
operation on the surface owner's land for the purpose of State: West Virginia Pleasants		UTM NAD 8	Easting: Northing:	493994.22 4364090.23	
District:	Union		Public Road		Arvilla Rd (CR7)
Quadrang Watershee			Generally us	ed farm name:	John & Edith Smith
Pursuant t to be prov horizontal surface af information headquarte	wided by W. Va. C well; and (3) A pro- fected by oil and ga on related to horizon	ode § 22-6A-10(b) to a sposed surface use and co as operations to the extental drilling may be obta	surface owner whose ompensation agreeme int the damages are co ained from the Secret	e land will be un nt containing ar empensable unc tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 0 9 2017

Office of Oil and Gas

WW-6A5 (1/12) Operator Well No. P4N5

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(c)					
■ CERT	FIED MAIL	☐ HAND					
	RN RECEIPT REQUESTED	DELIVERY					
				The second secon			
return receip the planned required to b drilling of a damages to t (d) The notic of notice.	t requested or hand delivery, give the operation. The notice required by e provided by subsection (b), section horizontal well; and (3) A proposed he surface affected by oil and gas opers required by this section shall be g	e surface owner whose lan this subsection shall inclu- ten of this article to a surface use and compen- erations to the extent the d given to the surface owner	d will be used for de: (1) A copy face owner whose sation agreement amages are com	ication, an operator shall, by certified mail for the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the not containing an offer of compensation for appensable under article six-b of this chapter, sted in the records of the sheriff at the time			
	reby provided to the SURFACE O						
(at the addre Name:	ss listed in the records of the sheriff a		Darin Barber	,			
		name:	Name: Darin Barber				
2.00							
Address:	West Virginia Code § 22-6A-16(c), n	Addres Washing	S: 11378 Dupont B6. ton WV 26181 he undersigned	well operator has developed a planned			
Notice is her Pursuant to voperation or State: County:		Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD 8	s: 11378 Dupont po. ton WV 26181 the undersigned all well on the tra Easting: Northing:	act of land as follows: 493994.22 4364090.23			
Notice is her Pursuant to v operation or State: County: District:	West Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Pleasants Union	Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD a Public Road	he undersigned al well on the tra Easting: Northing:	act of land as follows: 493994.22			
Notice is her Pursuant to Voperation or State: County: District: Quadrangle:	West Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Pleasants Union Bens Run 7.5'	Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD a Public Road	s: 11378 Dupont po. ton WV 26181 the undersigned all well on the tra Easting: Northing:	act of land as follows: 493994.22 4364090.23			
Notice is her Pursuant to V operation or State: County: District:	West Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Pleasants Union	Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD a Public Road	he undersigned al well on the tra Easting: Northing:	act of land as follows: 493994.22 4364090.23 Arvilla Rd (CR7)			
Notice is her Pursuant to voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to vote be provide horizontal working affect information	West Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Pleasants Union Bens Run 7.5' Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), to ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a sted by oil and gas operations to the related to horizontal drilling may be a located at 601 57th Street, SE,	Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD a Public Road Generally us this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secretary and the secretary of the secretary and the secretary of the sec	s: 11378 Dupont po. ton WV 26181 the undersigned al well on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be undersigned and will be undersigned and containing an ompensable undersy, at the WV	act of land as follows: 493994.22 4364090.23 Arvilla Rd (CR7) John & Edith Smith code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional			
Notice is her Pursuant to voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to voto be provide horizontal watershed: warface affect information headquarters gas/pages/de	West Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Pleasants Union Bens Run 7.5' Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), to ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a steed by oil and gas operations to the related to horizontal drilling may be a located at 601 57th Street, SE, fault.aspx.	Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD 8 Public Road Generally us this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are compared to the compensation of the secret contained from the Secret Charleston, WV 25304	s: 11378 Dupont po. ton WV 26181 the undersigned all well on the tra Easting: Northing: Access: ed farm name:) A copy of this e land will be undersigned and will be undersigned at the WV (304-926-0450)	act of land as follows: 493994.22 4364090.23 Arvilla Rd (CR7) John & Edith Smith code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-			
Notice is her Pursuant to Voperation or State: County: District: Quadrangle: Watershed: This Notice Pursuant to Voto be provide horizontal wasurface affect information headquarters	West Virginia Code § 22-6A-16(c), no the surface owner's land for the pur West Virginia Pleasants Union Bens Run 7.5' Middle Island Creek Shall Include: West Virginia Code § 22-6A-16(c), to ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use a steed by oil and gas operations to the related to horizontal drilling may be a located at 601 57th Street, SE, fault.aspx.	Addres Washing otice is hereby given that to pose of drilling a horizonta UTM NAD a Public Road Generally us this notice shall include: (1 to a surface owner whose and compensation agreement extent the damages are contained from the Secretary and the secretary of the secretary and the secretary of the sec	s: 11378 Dupont po. ton WV 26181 the undersigned al well on the tra Easting: Northing: Access: ed farm name:)A copy of this e land will be undersigned and will be undersigned and containing an ompensable undersy, at the WV	act of land as follows: 493994.22 4364090.23 Arvilla Rd (CR7) John & Edith Smith code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-			

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Office of Oil and Gas

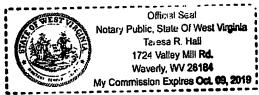
WV 0 9 2017

Environmental Protection
08/03/2018

WW-70 Rev. 7/01

Affidavit of Personal Service

State Of West Virginia
County Of Ritchie
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of
(1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A)X WSSPX (2) Application on Form WW-2(B) X / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) X E&S X (3) Plat showing the well location on Form WW-6, and X WW-6A5 X MSDS X (4) Construction and Reclamation Plan on Form WW-9 X (6) WW6A1 X WMPX WW6RW/AW all with respect to operator's Well No. PANAL PANAL PASS.
Jay-Bee Cil & Gas, Inc.
by delivering the same in Ritchie County, State of West Virginia on the assemination day of August , 2017 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual: [] Handing it to him/ her/ or, because he/ she/ refused to take it when offered it, by leaving it in his/ her/ presence.
[] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.
For a limited partnership: [] Handing it to the general partner, named, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation: [X] Handing it to the corporation's employee X / officer / director / attorney in fact / named Travis Yost
181gnature of person executing service
Taken, subscribed and sworn before me this 35th day of (11005th 2017). My commission expires (1) 0019
Motary Public
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



RECEIVED
Office of Oil and Gas

NOV 0 9 2017

WW-70 Rev. 7/01

Affidavit of Personal Service

State Of West Virginia
County Of Harrison
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of
(1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A)X WSSP X (2) Application on Form WW-2(B) X / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) X E&S X (3) Plat showing the well location on Form WW-6, and X WW-6A5 X MSDS X (4) Construction and Reclamation Plan on Form WW-9 X (5) WW6A1 X WMPX WW6RW/AWall with respect to operator's Well No. PANZ, P
Jay-Bee Oil & Gas, Inc.
by delivering the same in Harrison County, State of West Virginia
on the ***2017 day of August , 20 17 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual: [] Handing it to him/ her/ or, because he/ she/ refused to take it when offered it, by leaving it in his/ her/ presence.
[] Handing it to a member of his or her family above the age of 16 years named who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership: [] Handing it to
For a limited partnership: [] Handing it to the general partner, named, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.
For a corporation: [X] Handing it to the corporation's employee/ officer_X_/ director/ attorney in fact/ named Brian Paugh
(Signature of person executing service)
Taken, subscribed and sworn before me this 20 day of Hucilil 2017 Office of Oil and Gas
Notary Public NOV 0 9 2017
(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE) WV Department of Environmental Protection
Official Seal Notary Public, State Of West Virginia Teresa R. Hall 1724 Valley Mill Rd. Waverly, WV 26184 My Commission Expires Oct. 09, 2019



west virginia department of transportation Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Thomas J. Smith, P. E. Secretary of Transportation/Commissioner of Highways

July 19, 2018

Jill M. Newman
Deputy Commissioner

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the P4 Pad, Pleasants County
P4N5 Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2018-0350 issued to Jay-Bee Oil & Gas, Inc. for access to the State Road for a well site located off of Pleasants County Route 7 SLS.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Day K. Clayton

Cc:

Shane Dowell

Jay-Bee Oil & Gas, Inc.

CH, OM, D-6

File



JAY-BEE OIL & GAS, INC.

Permitting Office Office of Oil and Gas West Virginia Dept. of Environmental Protection 601 57th Street SE Charleston, WV 25304

RE: Frac Additives

Permitting Office:

As requested on the Well Permit Checklist, the CAS numbers are referenced for all submitted permits on WW6B, page 1, and listed below:

- Water (7732-18-5)
- Sand (14808-60-7, 1344-28-1, 1309-37-1, 13463-67-7)
- Friction Reducer (64742-47-8)
- Scale Inhibitor (107-21-1, 111-46-6)
- Bacteria Prevention (111-30-8, 7173-51-5, 68424-85-1, 64-17-5)
- 15% Vol Acid (7647-01-0)

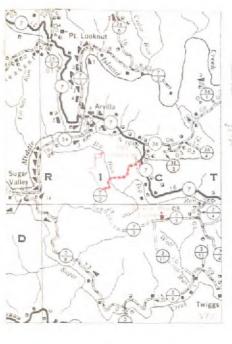
in sold

- Citric Acid (77-92-9)
- Guar Gum (9000-30-0)
- Corrosion Inhibitor (67-56-1, 107-19-7)
- Surfactant (111-76-2)

If you would have any questions concerning this matter, please feel free to contact our office at the numbers listed below.

Sincerely,

Shane Dowell Office Manager NOV 0 9 2017



P4 Well Pad Site Plan Modification

Union District, Pleasants County, WV Prepared for JAY BEE OIL & GAS

Date May 07, 2018

APPROVED WVDEP OOG 7/2/1 6/8/2018









So makes until news Sound lysthic 250° of the well harden in a consequence many fraction within 655° of the water of the clear 1968.





Design. Certification
The distance, construction notes and reference stagrams attached herein has been prepared on occordance tests the Rest Verginus Code of State Rules, Dissisten of Environmental Protection, Office of Oil and Gas.

The information reflects a was well pad and access mad

Dennie L. Fisher RFE 6534:

Donnes D. Fisher, PE

VENTER ROAD INT. (Sta. 0+00) Geographic NAB 83 Latteste 29 425772 Longitude 81 05531

Note Stream and Welland delineation are from Allelar Scalegy report dated November 21, 2017. All property their thour are algorithms and hear not been field weighed Stream in pact chart on Sheet 2.





Sorth Central Engineering, LLC



Jackson Surveying Inc. COVER.

SHEET !

P4 Well Part

