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 west virginia department of environmental protection
 

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, December 21, 2018  
 WELL WORK PERMIT  
 Horizontal 6A / New Drill

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

UNION, NJ 070830000

Re: Permit approval for P4S5U  
 47-073-02583-00-00

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: P4S5U  
 Farm Name: JOHN & EDITH SMITH  
 U.S. WELL NUMBER: 47-073-02583-00-00  
 Horizontal 6A New Drill  
 Date Issued: 12/21/2018

# 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

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1. 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.

## 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](mailto:DEPOOGNotify@wv.gov).



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west virginia department of environmental protection

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Oil and Gas Conservation Commission  
601 57<sup>th</sup> Street SE, Charleston, WV 25304  
304-926-0499 Ext 1274

Barry K. Lay, Chairman  
dep.wv.gov

December 19, 2018

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

RE: Application for Deep Well Permit – API #47-051-02583

COMPANY: Jay-Bee Oil & Gas, Inc.

FARM: John A. Smith & Edith U. Smith P4S5U


COUNTY: Pleasants DISTRICT: Union QUAD: Bens Run

The deep well review of the application for the above company is Approved to drill to Trenton for Point Pleasant completion.

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. Comments to Notice of Deviation filed? No
2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: yes; Docket No. 270-262 Exception Location Hearing; 47-073-2579; 47-073-02495; 47-073-02484; 47-073-00747
4. Provided a plat showing that the proposed location is a distance of 400+ 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,

  
Susan Rose  
Administrator

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 Pleasants Union Ben's Run 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: P4S5U Well Pad Name: P4

3) Farm Name/Surface Owner: John & Edith Smith Public Road Access: Arvilla Rd (CR7)

4) Elevation, current ground: 982.1' Elevation, proposed post-construction: 957.22'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow \_\_\_\_\_ Deep   
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Point Pleasant: 10,835' Depth, 256' Thickness, 8000 psi, Trenton: 11,120' Depth Thickness, 180' Thickness, 8000 psi

8) Proposed Total Vertical Depth: 11,120' TVD, 10,835' TVD (Horizontal section)

9) Formation at Total Vertical Depth: Trenton (TVD) Point Pleasant (Horizontal)

10) Proposed Total Measured Depth: 21,991'

11) Proposed Horizontal Leg Length: 9,616'

12) Approximate Fresh Water Strata Depths: 216'

13) Method to Determine Fresh Water Depths: API 47-073-00798

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	26	New	H40	94 lb./ft	30'	30'	CTS 49 Cu. Ft.
Fresh Water	18 5/8	New	K55	87.5 lb./ft	300'	300'	CTS 375 Cu. Ft.
Coal	13 3/8	New	J55	61 lb./ft	1,800'	1,800'	CTS 1,250 Cu. Ft.
Intermediate	9 5/8	New	HCP-110	47 lb./ft	7,100'	7,100'	1,910 Cu. Ft.
Production	5 1/2	New	P110	23 lb./ft	21,991'	21,991'	4,555 Cu. Ft.
Tubing	N/A						
Liners	N/A						

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	26	30	.375	N/A	50	Class A	1.18-1.20
Fresh Water	18 5/8	24	.435	2,250	1,000	Class A	1.18-1.20
Coal	13 3/8	17 1/2	.480	3,090	1,500	Class A	1.18-1.24
Intermediate	9 5/8	12 1/4	.472	9,440	2,000	Class A	1.18-3.00
Production	5 1/2	8 1/2	.415	16,800	2,500	Type 1 Cement	1.36-2.08
Tubing	N/A						
Liners	N/A						

**PACKERS**

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

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

Drill vertical section of this well into the Trenton for logging purposes and to gather information. After that is complete we will plug back the well with a solid cement plug to from TD to KOP, effectively plugging the Trenton formation, and drill a Horizontal section through the Point Pleasant formation.

DH  
5-2-18

QCB  
5/21/2018

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

+/- 200' per stage using 8,000bbls of water per stage and approx. 180,000-200,000lbs. of sand Friction reducer at a 1.0gpt ratio Scale inhibitor at a .25gpt ratio biocide for prevention of bacteria growth at a .25gpt ratio and 2000 gallons of 15% acid @ 70-80BPM with pressure ranging from 6,000 to 11,000PSI. The use of a gelling agent and a breaker may be used if needed throughout the fracturing process. Water and sand will make up approximately 99% of the fluid used to stimulate with.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 35.5

22) Area to be disturbed for well pad only, less access road (acres): 10.07

23) Describe centralizer placement for each casing string:

Conductor: None  
Surface: 1 on joint above shoe and then one every 4th joint to surface  
Intermediate 2 Strings: 1 on joint above shoe and then on every 4th joint to surface  
Production: Horizontal every 42' Spiral Centralizer, Curve - every 84' Spiral Centralizer. Vertical every 500' to surface

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

Conductor: Class A no additives  
Surface: Class A Cement, 2% Calcium Chloride, 1/4# flake  
Intermediate 1: Class A Cement, Calcium Chloride, Bentonite, FP-13L, BA-10A  
Intermediate 2: Class A Cement, BA-90, Potassium Chloride (KCL), MPA-170, R-3, Sodium Metasilicate (SMS), FL-52, ASA-301  
Production Lead: 50/50 Poz-Class A+10% Salt-(BWOW)+3%Bentonite+0.65% Super FL-200+0.1%SEC-10+0.5% Air Out+0.1% R-1  
Production Tail: 50/50 Poz-Class A+10% Salt-(BWOW)+3%Bentonite+0.65% Super FL-200+0.1%SEC-10+0.5% Air Out+0.1% R-1

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Office of Oil and Gas  
MAY 23 2018

25) Proposed borehole conditioning procedures:

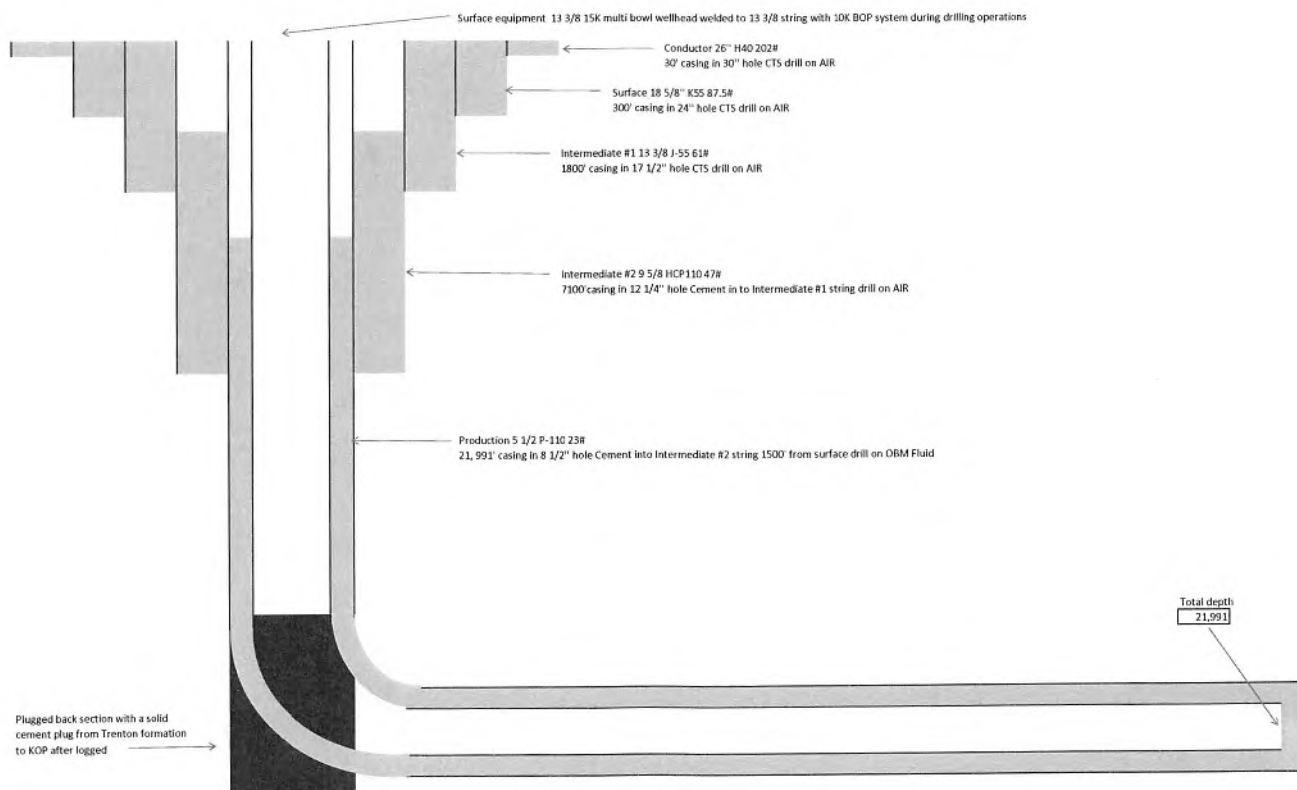
Air Hole: 24" 17 1/2" & 12 1/4" - Circulate until clean with air. If soaping, slug then dry.  
8 1/2" Hole drilled on fluid for the 5 1/2" casing will be circulated 5-6 bottoms up and minimum of 2 heavy weighted sweeps will be pumped to ensure all cuttings are circulated continued until no cuttings are retrieved

WV Department of  
Environmental Protection

\*Note: Attach additional sheets as needed.

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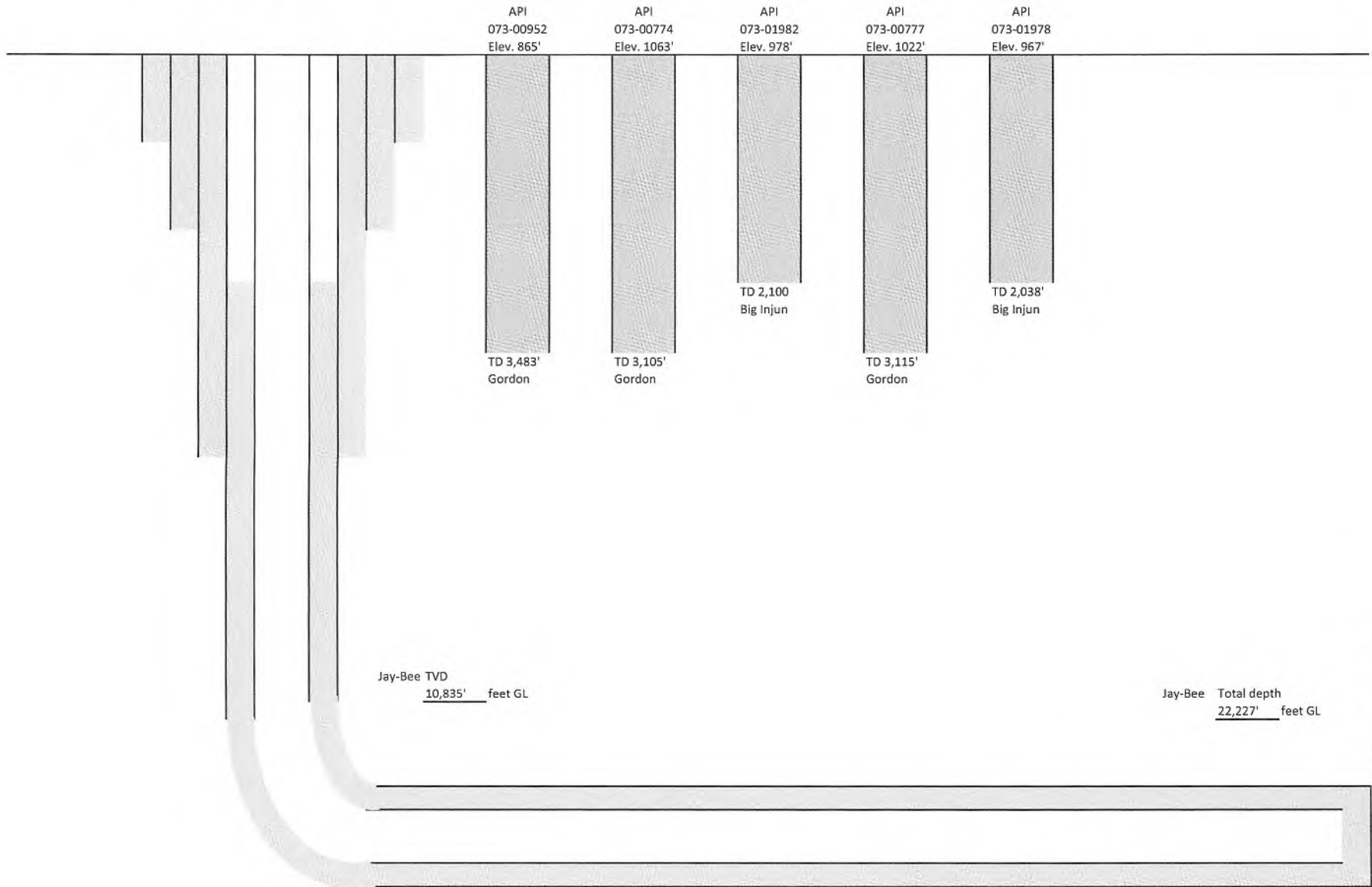
Well Name: P455U Pleasants County, WV  
GL Elevation: 957.22' Cement





Jay-Bee Oil & Gas Inc.  
Well Name P455U  
GL Elevation 957.22'

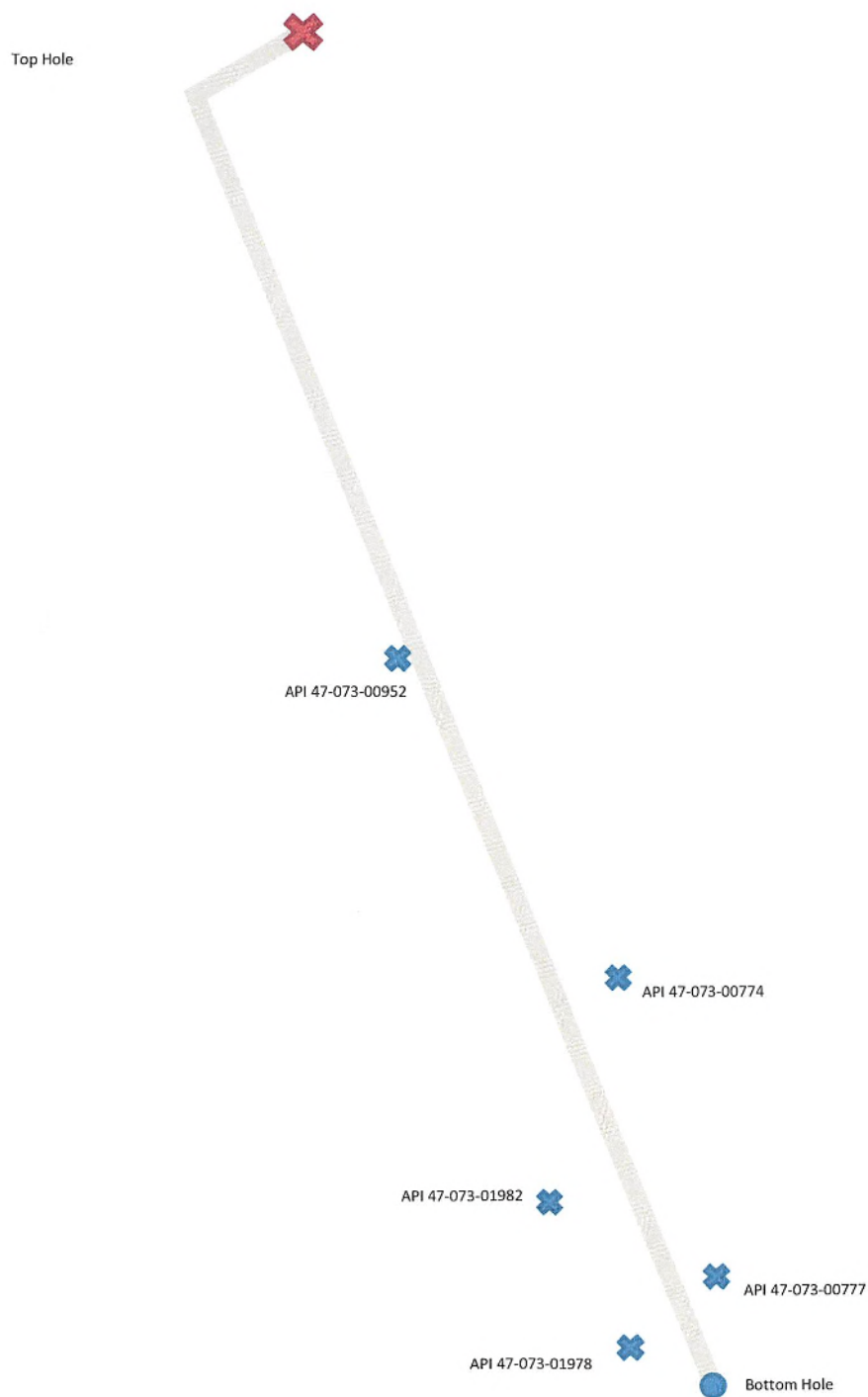
### Well-Site Safety Plan Anti-Collision Schematic



4707302583

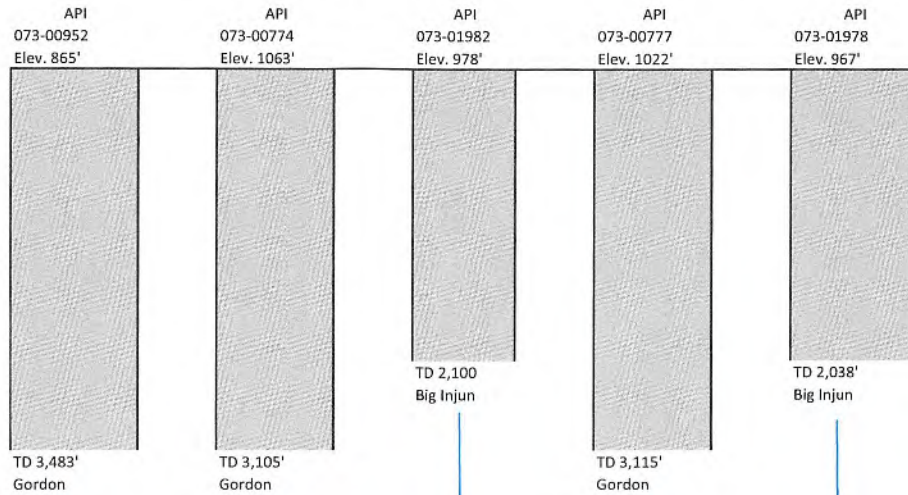
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### Well-Site Safety Plan Anti-Collision Schematic



4707302583

**Area of Review**  
P455U - API Pending



Operator	Sancho Oil & Gas Corp.		Triad Hunter, LLC		Ecological Energy		Triad Hunter, LLC		Ecological Energy
Well Name	3		R141		9		R144		10
Perforated Formations	Gordon		Gordon		Big Injun		Gordon		Big Injun
Unperforated Producing Formations	Gantz		Gantz		Keener		Gantz		Keener
	Berea		Berea		Big Lime		Berea		Big Lime
	Weir		Weir		Maxon		Weir		Maxon
	Big Injun		Big Injun		Big Dunkard		Big Injun		Big Dunkard
	Keener		Keener		Little Dunkard		Keener		Little Dunkard
	Big Lime		Big Lime		Cow Run		Big Lime		Cow Run
	Maxon		Maxon				Maxon		
	Big Dunkard		Big Dunkard				Big Dunkard		
	Little Dunkard		Little Dunkard				Little Dunkard		
	Cow Run		Cow Run				Cow Run		

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

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
- 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 )

*Handwritten notes:*  
Dob 5/21/2018  
5-21-18

Will closed loop system be used? If so, describe: Yes, Centrifuge Drying Shaker System for Top Hole & Horizontal section

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 on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) Shane Dowell

Company Official Title Office Manager

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Office of Oil and Gas

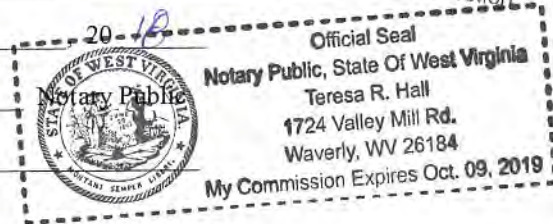
MAY 23 2018

WV Department of  
Environmental Protection

Subscribed and sworn before me this 21<sup>st</sup> day of May

Teresa R. Hall

My commission expires Oct 9<sup>th</sup> 2019



Jay-Bee Oil & Gas, Inc.

Proposed Revegetation Treatment: Acres Disturbed 35.5 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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Oil & Gas Inspector Date: 5/21/2014

Field Reviewed? (  ) Yes (  ) No

# P4S5U

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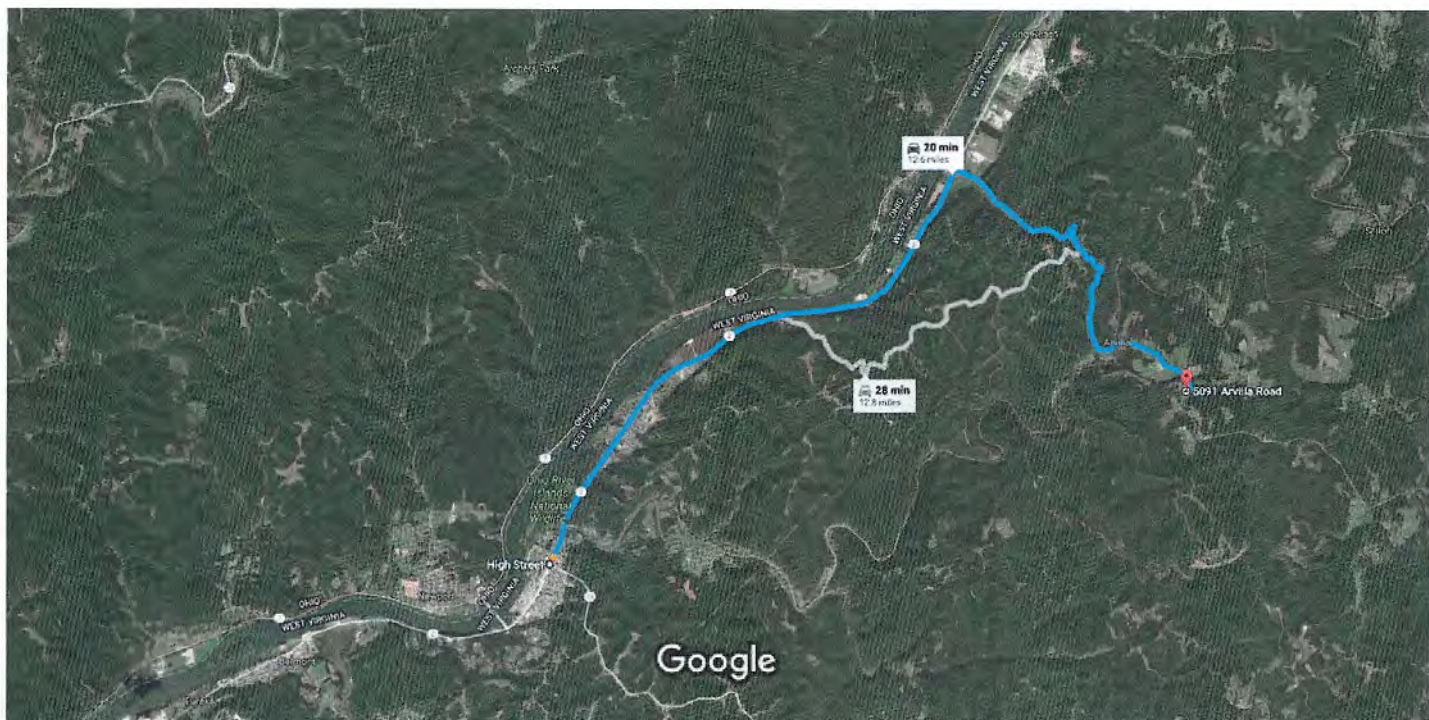
# WELL SITE SAFETY PLAN

JAY-BEE OIL & GAS, INC

*DmH*  
*5-21-18*

*QCB*  
*5/21/2018*

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WV Department of  
Environmental Protection



Imagery ©2017 Google, Map data ©2017 Google United States 1 mi

### High St

St Marys, WV 26170

- ↑ 1. Head northeast on WV-2 N/2nd St toward Fairview Dr  
i Continue to follow WV-2 N 7.4 mi
- ↘ 2. Turn right onto Arvilla Rd 4.0 mi
- ↘ 3. Turn right to stay on Arvilla Rd 1.3 mi

### 5091 Arvilla Rd

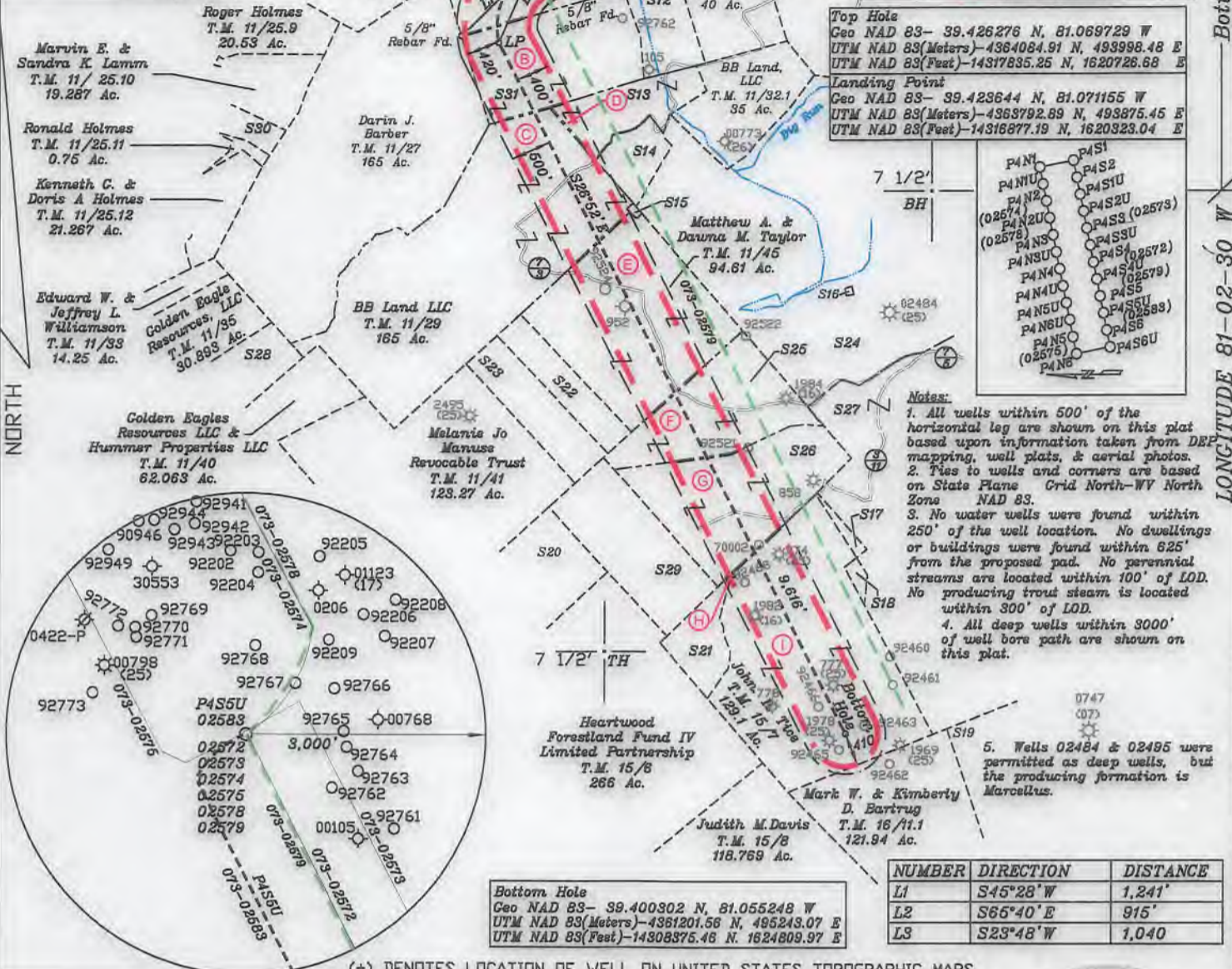
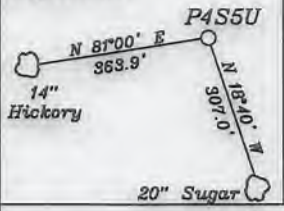
Bens Run, WV 26146

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

P4S5U LATITUDE 39-25-00 N (BH)  
UNIT BOUNDARY AREA -  
207.9166 ACRES ±

Bottom Hole 3,837'

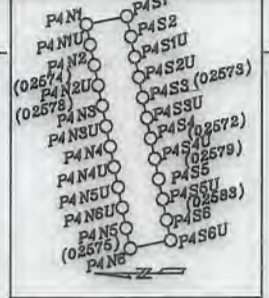
References:



- Unit Boundary Line  
400' from Bore Path.
- 500' from Bore Path
- Well Lateral
- Point Pleasant Legs  
within 3000' (proposed)
- Leased Tracts
- Surface Tracts
- (A) Oil & gas tracts within  
unit boundary

**Top Hole**  
Geo NAD 83- 39.426276 N, 81.069729 W  
UTM NAD 83(Meters)-4364084.91 N, 493998.48 E  
UTM NAD 83(Feet)-14317835.25 N, 1620726.58 E

**Landing Point**  
Geo NAD 83- 39.423644 N, 81.071155 W  
UTM NAD 83(Meters)-4363792.89 N, 493875.45 E  
UTM NAD 83(Feet)-14316877.19 N, 1620323.04 E



- Notes:**
1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
  2. Ties to wells and corners are based on State Plane Crd North-WV North Zone NAD 83.
  3. No water wells were found within 250' of the well location. No dwellings or buildings were found within 625' from the proposed pad. No perennial streams are located within 100' of LOD. No producing trout stream is located within 300' of LOD.
  4. All deep wells within 3000' of well bore path are shown on this plat.
  5. Wells 02484 & 02495 were permitted as deep wells, but the producing formation is Marcellus.

NUMBER	DIRECTION	DISTANCE
L1	S45°28'W	1,241'
L2	S65°40'E	915'
L3	S23°48'W	1,040'

**Bottom Hole**  
Geo NAD 83- 39.400302 N, 81.055248 W  
UTM NAD 83(Meters)-4361201.56 N, 495243.07 E  
UTM NAD 83(Feet)-14308375.46 N, 1624809.97 E

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

FILE NO. \_\_\_\_\_  
DRAWING NO. 1  
SCALE 1" = 2000'  
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 December 17, 2018  
OPERATOR'S WELL NO. P4S5U  
API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 957.22' WATER SHED Big Run of Outlet Middle Island Creek (HUC-10)  
DISTRICT Union COUNTY Pleasants  
QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER John A. Smith & Edith U. Smith. ACREAGE 189.21 Ac.  
OIL & GAS ROYALTY OWNER John A. Smith & Edith U. Smith. LEASE ACREAGE 189.21 Ac.  
LEASE NO. P7019

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

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD = 10,835'; TMD = 21,991'  
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

Bottom Hole 5,961'  
Top Hole 11,678'  
LONGITUDE 81-02-30 W  
LONGITUDE 81-02-30 W



P4S5U  
UNIT BOUNDARY AREA -  
207.9166 ACRES ± OF

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	11-12	MELISSA A. BLAKE	5.0
S2	11-13	PAMELA JO BOWIE	3.25
S3	11-14	PAMELA JO BOWIE	12.855
S4	6-106	JOHN A. & EDITH U. SMITH	21.46
S5	6-84	KEVIN S. BUZZARD	10.5
S6	6-108	REGULAR BAPTIST CHURCH OF JESUS CHRIST	2.0
S7	6-85	JAY BEE OIL AND GAS INC.	27.53
S8	7-28	WELLS CATTLE FARMS, INC.	34.46
S9	6-105	JERRY CORRIGAN	2.165
S10	11-16.1	ANTHONY L. LAUER & DEVIN L. LAUER	1.5
S11	11-16.2	ANTHONY L. LAUER & DEVIN L. LAUER	3.29
S12	11-18	BB LAND, LLC	26.75
S13	11-30	JAY BEE OIL AND GAS, INC.	25.14
S14	11-31	JAY BEE OIL AND GAS, INC.	13.11
S15	11-45.1	GARDNER CEMETERY	0.39
S16	12-40	HORNER CEMETERY	0.155
S17	16-29	MARY THORN ANDERSON	2.7
S18	16-28	JOHN R. TICE	1.69
S19	16-12	MARK W. BARTRUC & KIMBERLY D. BARTRUC	62.16
S20	15-5	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	50.0
S21	15-3	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	16.75
S22	11-43	MATTHEW A. & DAWNA M. TAYLOR	18.6
S23	11-44	MATTHEW A. & DAWNA M. TAYLOR	25.8
S24	11-32	LARRY WILLIAM HORNER, CARRY L. HORNER, NORMA JEAN FARSON, & LINDA LOU FETTY	210.82
S25	11-47	JAMES A., JASON M., JOSEPH P. & JEFFREY W. POWELL	49.0
S26	11-46	JAMES A., JASON M., JOSEPH P. & JEFFREY W. POWELL	67.0
S27	12-21	JAMES A., JASON M., JOSEPH P. & JEFFREY W. POWELL	172.0
S28	11-34	CLINTON G. HALL JR., MAX E. & LINDA L. HALL	38.33
S29	15-1	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	52.5
S30	11-25.14	JOSHUA & ABIGAIL HOLMES	2.268
S31	11-28	BB LAND LLC	56.5

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

12/21/2018

Tract Letter	Tax Map	Parcel #	Tract #	Oil & Gas Owners
A	11	16	P7019	John A. & Edith U. Smith
B	11	28	P7205	Jay-Bee Royalty
C	11	29	P7207	Jay-Bee Royalty
D	11	30	P7057	Robert R. and Michelle A. Akers
E	11	45	P7208	Berry Properties, LLC
(F, G)	11	47, 46	APCO 293	Powell et al
H	15	3	APCO511C	APCO Energy, Inc.
H	15	3	APCO511C	Leslie R. Elliott c/o The Elliott Family Trust, Elaine S. Elliott as Trustee
H	15	3	APCO511C	Wiley J. Elliott c/o The Elliott Family Trust, Elaine S. Elliott as Trustee
H	15	3	APCO511C	Ila Lee Leatherman
I	15	7	APCO148	John Tice
I	15	7	APCO148	APCO Energy, Inc.



P.S. 708 *David L. Jackson*

47-073-02583 H6A



Jay Bee  
Oil & Gas

DRILLING  
into the future

OPERATOR'S  
WELL #: P4S5U- (02583)  
DISTRICT: UNION  
COUNTY: PLEASANTS  
STATE: WV

P4S5U Well Plat  
PAGE 2 OF 2  
DATE: 12/17/2018

4707302583

WW-6A1  
(5/13)

Operator's Well No. P4S5U

**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 (A) ✓	John and Edith Smith	BB Land, LLC	≥12.5%	318-620
P7205 (B) ✓	Jay Bee Royalty et al.	BB Land, LLC	≥12.5%	312-199 et al
P7207 (C) ✓	Jay Bee Royalty et al	BB Land, LLC	≥12.5%	312-199 et al
P7057 (D) ✓	Robert and Michelle Akers	BB Land, LLC	≥12.5%	297-121
P7208 (E) ✓	Berry Properties, LLC	BB Land, LLC	≥12.5%	306-359
APCO293 (F,G) ✓	Powell, et all	BB Land, LLC deed assignment	≥12.5%	*pending See attached

**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

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 and Gas, Inc

By: Chris Lindsey

Its: Office Manager

WW-6A1  
(5/13)

Operator's Well No. P4S5U

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
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- (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
APCO511C (H) ✓	Elliot et al.	BB Land, LLC	≥12.5%	312-189 et al.
APCO 148 (I) ✓	John R. Tice et al.	BB Land, LLC	≥12.5%	318-68 et al.
Affidavit	Jay Bee Royalty	Jay Bee Oil and Gas, Inc.	≥12.5%	324-328 et al.
Affidavit	BB Land, LLC	Jay Bee Oil and Gas, Inc.	≥12.5%	317/157 & 318/069

**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
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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: Jay Bee Oil and Gas, Inc.  
 By: Chris Lindsey   
 Its: Office Manager

**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 P4S4U, P4S5U well (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 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.

4707302583

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 17<sup>th</sup> day of December, 2018 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: October 25<sup>th</sup>, 2023.

[Signature]  
NOTARY PUBLIC

[Signature]  
Randy Broda, Managing Member of JB Exploration I, LLC

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 17<sup>th</sup> day of December, 2018 by Randy Broda, Managing Member of JB Exploration I, LLC, on behalf of the company.

My commission expires: October 25<sup>th</sup>, 2023.

[Signature]  
NOTARY PUBLIC

**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 P4S5U well (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 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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WV Department of  
Environmental Protection

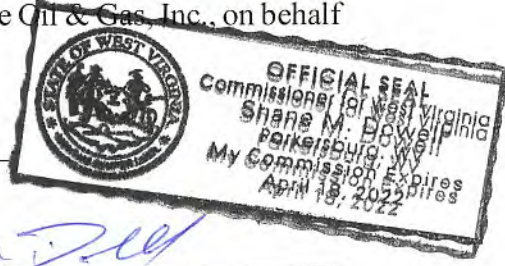
Further, affiants sayeth naught.

*[Handwritten signature]*

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

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 21 day of May, 2018 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: April 18, 2022



*[Handwritten signature]*  
NOTARY PUBLIC

*[Handwritten signature]*

Randy Broda, Managing Member of BB Land, LLC

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 21 day of May, 2018 by Randy Broda, Managing Member of BB Land, LLC, on behalf of the company.

My commission expires: April 18, 2022



*[Handwritten signature]*  
NOTARY PUBLIC

4707302583

## DEED

**THIS DEED**, made this 14<sup>th</sup> day of December, 2018 by and between **JAMES A. POWELL, JASON N. POWELL, JOSEPH P. POWELL, and JEFFERY W. POWELL**, Grantors and parties of the first part, and **BB LAND, LLC, a limited liability company**, Grantee and party of the second part.

**WITNESSETH:** That for and in consideration of the sum of \$10.00, cash in hand paid, the receipt and sufficiency of which are hereby acknowledged, Grantors does hereby grant and convey unto Grantee, its successors and assigns, their executive leasing rights in and to the oil, gas and minerals, in, on or underlying those certain lots, tracts, or parcels of land, situate in the District of Union, Pleasants County, West Virginia, more particularly described as follows:

**TRACT ONE:** **BEGINNING** at a stone in the Worth line; thence S. 42 E. 50 poles to a stake in the Worth line; thence N. 51-3/4 E. 194 poles to a hickory in the Worfield line; thence N. 17 W. 60 poles to a stone; thence S. 51 W. 188 poles to the place of beginning, containing 58 acres, more or less.

**TRACT TWO:** **BEGINNING** at the same beginning as above, S. 43-1/2 E. 220 poles to a corner stone to James Wagner; thence with said Wagner line S. 66 W. 97 poles to a white oak, corner to John R. Wagner; thence with said Wagner line N. 31-1/2 W. 142 poles to a stone; thence N. 50 E. 23 poles to a white oak corner to John R. Wagner; thence with this line N. 42 W. 60-1/2 poles to a hickory on the ridge in the old line corner to Wagner's; thence with said old line N. 45 E. 46 poles to the place of beginning, containing 90-1/2 acres, more or less.

**TRACT THREE:** **BEGINNING** at a black walnut in the Worth line of the south public road; thence N. 61 E. 5-17/25 poles to a black walnut also on the south side of the public road; thence S. 79-3/4 E. 9-13/25 poles to a stone also on the north side of the public road; thence S. 69-1/2 E. 9 poles to a stone on the south side of the public road; thence N. 56-3/4 E. 30-20/25 poles to a white oak just north of the public road; thence N. 76-3/4 E. 21-8/25 poles to a west gate post on the north side of the public road; thence S. 73 E. 13-7/15 poles to a locust tree on the east side of Wolfe Run Road; thence S. 9 degrees E. 13-7/15 poles to the north line of Tract Number One; thence S. 52 W. 98-18/25 poles; thence S. 54 poles to the place of beginning, containing 28-1/4 acres, more or less.

**TRACT FOUR:** **BEGINNING** at a white oak in Oliver Gorrell's southwest line and also a corner to the dower interest of Catherine Gorrell; thence S. 47 W. 144 poles to a white oak; thence 42 E. 41-1/2 poles to a white oak; thence N. 78-1/2 E. 71 poles to an ash in the Run bottom; thence N. 62-3/4 E. 51 poles to a stone on the north side of the public road on top of the ridge; thence N. 79 E. 10 poles to a stone on the north side of the Public road; thence S. 76-1/2 E. 18 poles to a stone in the Oliver Gorrell's line; thence N. 42 W. 76 poles to the place of beginning, containing 49 acres, more or less.

**TRACT FIVE:** **BEGINNING** at a stone in the north line of J.R. Wagner;

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thence N. 45 E. 141 poles to a stone; thence N. 42 W. 52 poles to a stone; thence N. 70-1/2 W. 18 poles to a stone; thence S. 79 W. 10 poles to a stone; thence S. 62-3/4 W. 52 poles to an ash; thence S. 84 W. 71 poles to a white oak; thence S. 42 E. 91 poles to the place of beginning, containing 67 acres, more or less.

This conveyance is made subject to any and all prior conveyances, reservations, exceptions, conditions, covenants, easements, rights of way, or other matters set forth by prior owners by instruments of record, including those covenants, conditions, and restrictions.

Being the same tracts or parcels of land conveyed to the grantors herein by that certain deed bearing date the 5<sup>th</sup> day of December, 2007, and of record in the Office of the Clerk of the County Commission of Pleasants County, West Virginia in Deed Book No. 267, at page 482.

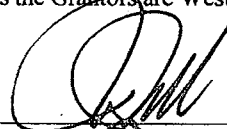
**DECLARATION OF CONSIDERATION OR VALUE**

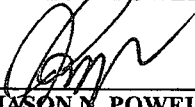
The undersigned Grantors hereby declare that the total consideration for the aforesaid property interest conveyed is \$636,500.00.

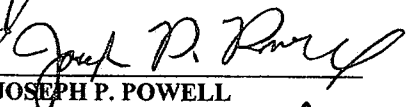
**AFFIDAVIT**

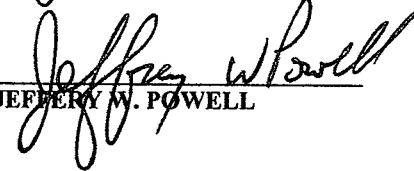
Grantors hereby affirm, under penalty of perjury, that this transaction is not subject to withholding of tax under W. Va. Code §11-21-71b, as the Grantors are West Virginia residents.

WITNESS the following signatures and seals:

  
\_\_\_\_\_  
JAMES A. POWELL

  
\_\_\_\_\_  
JASON M. POWELL

  
\_\_\_\_\_  
JOSEPH P. POWELL

  
\_\_\_\_\_  
JEFFERY W. POWELL

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12/21/2018

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STATE OF WEST VIRGINIA;

COUNTY OF PLEASANTS; TO-WIT:

The preceding instrument was executed and acknowledged before me, the undersigned authority by **JAMES A. POWELL, JASON N. POWELL, JOSEPH P. POWELL,** and **JEFFERY W. POWELL** who acknowledged the same before me as their lawful act and Deed this 14<sup>th</sup> day of December, 2018, in my said County and State.

My Commission Expires:

November 28, 2020



Denette Miller  
Notary Public

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ASSIGNMENT AND BILL OF SALE

STATE OF WEST VIRGINIA )
) §
COUNTY OF PLEASANTS )

This Assignment of Oil and Gas Leases and Conveyance of Oil and Gas Wells ("Assignment"), dated effective as of December 16, 2018 (the "Effective Time"), is made by APCO Energy, Inc., P.O. Box 893, 599 East Brockway Avenue, Morgantown, West Virginia 26505, (hereinafter called "Assignor"), to BB Land LLC, P. O. Box 380, Bridgeport, West Virginia 26330, (hereinafter referred to as "Assignee"). Assignor and Assignee are collectively referred to herein as the "Parties" and each of Assignor and Assignee are sometimes referred to herein individually as a "Party."

WHEREAS, Assignor is the lessee of oil and gas rights in and to those certain tracts of land located in Pleasants County, West Virginia, more particularly described in Exhibit "A" attached hereto and made a part hereof (collectively, the "Leases"); and

WHEREAS, Assignor is the owner and producer of oil and gas wells on those certain tracts of land located in Pleasants County, West Virginia, described in Exhibit "A," which wells are more particularly described in Exhibit "B" attached hereto and made a part hereof (collectively, the "Wells"); and

WHEREAS, Assignor desires to assign and sell all right, title and interest in and to the Leases, wells and all appurtenances thereto, as more particularly described in this Assignment.

NOW, THEREFORE, for and in consideration of Ten Dollars (\$10.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby GRANT, TRANSFER, ASSIGN and CONVEY unto Assignee (a) all of Assignor's right, title and interest in and to the Leases INsofar as such Leases cover all depths and formations from the surface to the basement (b) all of Assignor's rights, title and interest in and to the Wells and all appurtenances thereon, (c) all road rights of way and pipeline rights of way used in conjunction with the production of said wells granted under such Leases including, without limitation, non-exclusive access rights to the use of the surface and rights to install pipelines, but specifically excluding the "Retained Rights" (as hereinafter defined) and (c) any other rights, properties or interests relating to, or necessary in connection with, the ownership of the Leases and Wells.

The term "Retained Rights" as used herein shall mean (a) the existing road right of way, currently on the premises, used for the ingress and egress to wells on the adjacent property, and (b) the existing pipeline rights of way, currently on the premises, for the RECEIVED six (6) inch pipeline and all rights and privileges of ingress and egress thereto pertaining to the right of way. Office of Oil and Gas

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Office of Oil and Gas  
12/21/2018

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This Assignment is further made subject to the following:

1. **Transfer Taxes / Recording Fees.** Assignee agrees to pay all filing, recording, transfer fees, documentary stamps or excise taxes in connection with the filing and recording of this Assignment, and all fees imposed by any state or federal agency in connection with this transfer.
2. **No Interference.** The Parties understand that each Party may or shall have existing future wells, pipelines and access roads located on or under the lands covered by the Leases, and no Party shall unreasonably interfere with or impede the operations of the other Party under the Leases. Upon request by a Party, the other Party may, at its sole option, permit such requesting Party the right to utilize any existing pipelines or gathering systems on such Leases of such non-requesting Party. Should such requesting Party be granted such utilization rights, such requesting Party agrees to make repairs for any damage to and to share in the cost of maintenance of any shared facilities for so long as the requesting Party continues to share such facilities with the non-requesting Party.
3. **Surface Use.** To the extent that each Party is not restricted from granting such access, each Party shall have the right to use any access roads constructed by the other Party for the non-constructing Party's oil and gas operations related to its operations upon the Leases. The non-constructing Party shall indemnify the other Party from any claims, damages or injuries that arise from such non-constructing Party's or its representatives' or contractors' use of such access roads, and each Party, for so long as such access roads are used jointly by the Parties, shall (a) promptly repair any and all damages that such Party or its representatives or contractors may cause to such access roads; and (b) participate in the further maintenance of such access roads.
4. **Indemnifications.**

(a) Neither Party shall have any control over the operations of the other Party upon the Leases and each Party shall be responsible for all costs and expenses incurred by such Party in connection with such operations. Each Party (an "Indemnifying Party") shall defend, indemnify and hold the other Party, its equity holders, officers, directors, employees, agents, contractors, subcontractors, subsidiaries, and joint venture partners (all of such persons and entities, the "Indemnified Party") harmless from and against all claims, losses, damages, expenses, causes of action or lawsuits of every kind and character, including, without limitation, those lawsuits and/or claims brought by such Indemnifying Party's contractors, sub-contractors or the employees thereof, or such Indemnifying Party's employees, or any lessor or land owner associated with the Leases, or any other third party, arising out of or resulting from such Indemnifying Party's operations related in any way to the 'Retained Rights'.
5. **Warranty of Title.** THIS ASSIGNMENT IS MADE WITHOUT WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, EXCEPT THAT

ASSIGNOR WARRANTS AND WILL DEFEND THE LEASES CONVEYED UNTO ASSIGNEE FROM AND AGAINST ALL PERSONS CLAIMING THE LEASES OR ANY PART THEREOF BY, THROUGH OR UNDER ASSIGNOR, BUT NOT OTHERWISE. This Assignment is made subject and subordinate to (i) all instruments of title or other documents of record and (ii) all reservations, restrictions and conditions contained or referred to in prior deeds, leases, licenses, easements, rights of way, encumbrances, pledges, instruments, and other title documents of record affecting or pertaining to the leased premises.

- 6. **Assignment Notice.** Assignor shall notify Assignee in writing if Assign assigns all or a portion of the Retained Rights to a third party. Provided, however, that notification shall not be required in the event of an assignment by Assignor: (a) to an affiliate, subsidiary, or internal partners; (b) in consequence of a merger or amalgamation; or (c) of all or substantially all its assets to a third party.
- 7. **Third Party Beneficiaries.** Nothing contained herein is intended or shall be deemed to create or confer any rights upon any third person not a party hereto, whether as a third-party beneficiary or otherwise, except as expressly provided herein; nor shall anything contained herein be construed to create any partnership, agency, joint venture or like relationship between Assignee and Assignor.
- 8. **Further Assurances.** Assignor and Assignee agree to take such further actions and to execute, acknowledge and deliver all such further documents as are reasonably requested by the other Party for carrying out the purposes of this Assignment.
- 9. **Binding Effect.** This Assignment shall extend and inure to the benefit of Assignor and Assignee and their respective successors or assigns.
- 10. **Counterparts.** This Assignment may be executed in counterparts, each of which shall be deemed an original instrument, but all such counterparts together shall constitute but one agreement.

IN WITNESS, WHEREOF, the Parties have caused this Assignment to be effective as of the date first set forth above.

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*[Signature Page to Follow]*

**ASSIGNOR:**

APCO ENERGY

By: 

Name: John P. Witt

Title: President, APCO Energy, Inc.

**ASSIGNEE:**

BB LAND, LLC

By: 

Name: Brian Paugh

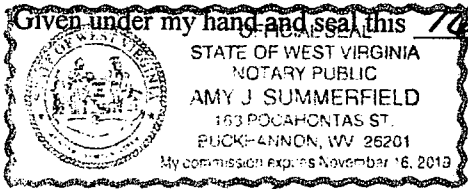
Title: Vice President of Land for BB Land, LLC

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STATE OF WEST VIRGINIA  
COUNTY OF MONONGALIA, TO WIT:

I, Amy J. Summerfield, a Notary Public in and for the County and State aforesaid, do hereby certify that the following John P. Witt, signed to the foregoing writing, bearing date the 16<sup>th</sup> day of December 2018, has this day acknowledged the same before me in my said County.



Given under my hand and seal this 16 day of December 2018

Amy J. Summerfield  
Notary Public

My Commission expires: November 16, 2019

STATE OF WEST VIRGINIA  
COUNTY OF HARRISON, TO WIT:

I, Danielle Aman, a Notary Public in and for the County and State aforesaid, do hereby certify that the following Brian Paugh, signed to the foregoing writing, bearing date the 16 day of December 2018, has this day acknowledged the same before me in my said County.

Given under my hand and seal this 16 day of December 2018.

Danielle Aman  
Notary Public

My Commission expires: 2-18-2021

OFFICIAL SEAL  
COMMISSIONER FOR WEST VIRGINIA  
Danielle Aman  
Clarksburg, WV  
My Commission Expires February 18, 2021

This document was prepared by and when recorded return to:  
BB Land, LLC  
P.O. Box 380, Bridgeport, WV 26330

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Department of  
Environmental Protection

12/21/2018  
4707302583

**EXHIBIT "A"**

- 1.) The James A. Powell and Judith Woody Powell Oil and Gas Leasehold granted by that certain oil and gas lease dated the 15th of November, 1977, from James A. Powell and Judith Woody Powell, his wife, to J. E. Olds and recorded in the Office of the Clerk of the County Commission of Pleasants County, in Deed Book 148, page 558, together with any and all amendments, ratifications, and/or modifications thereto.

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**EXHIBIT "B"**

<u>API #'S</u>	<u>WELL NAME</u>	<u>STATUS</u>
47-073-00858	J. Powell 1	Producing
47-073-00859	J. Powell 3	Producing
47-073-00791	J. Powell 2	Producing
47-073-01985	J. Powell 6	Producing
47-073-01984	J. Powell 5	Producing
47-073-00794	J. Powell 4	House Gas

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ASSIGNMENT AND CONVEYANCE OF OIL AND GAS LEASES

STATE OF WEST VIRGINIA )  
 ) §  
COUNTY OF PLEASANTS )

This Assignment and Conveyance of Oil and Gas Leases (this "Assignment"), dated effective as of December 17, 2018 (the "Effective Time"), is made by Alliance Petroleum Corporation, 4150 Belden Village Ave., N.W., Suite 410, Canton, Ohio 44718 (hereinafter called "Assignor"), to BB Land LLC, P. O. Box 380, Bridgeport, West Virginia 26330, (hereinafter referred to as "Assignee"). Assignor and Assignee are collectively referred to herein as the "Parties" and each of Assignor and Assignee are sometimes referred to herein individually as a "Party."

WHEREAS, Assignor owns certain undetermined oil and gas leasehold rights in and to those certain tracts of land located in Pleasants County, West Virginia, more particularly described on Exhibit "A" attached hereto and made a part hereof (collectively, the "Leases"); and

WHEREAS, Assignor desires to assign all rights, title and interest in and to the Leases. as more particularly described in this Assignment.

NOW, THEREFORE, for and in consideration of Ten Dollars (\$10.00) and other valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby GRANT, TRANSFER, ASSIGN and CONVEY unto Assignee (a) all of Assignor's right, title and interest in and to the Leases INsofar as such Leases cover all depths and formations from the surface to the basement (b) all of Assignor's rights, title and interest in and to any wells and all appurtenances thereon, (c) all road rights of way and pipeline rights of way used in conjunction with the production of said wells granted under such Leases including, without limitation, non-exclusive access rights to the use of the surface and rights to install pipelines (c) any other rights, properties or interests relating to, or necessary in connection with, the ownership of the Leases and Wells.

This Assignment is further made subject to the following:

1. **Transfer Taxes / Recording Fees.** Assignee agrees to pay all filing, recording and transfer fees, documentary stamps or excise taxes in connection with the filing and recording of this Assignment, and all fees imposed by any state or federal agency in connection with this transfer.
2. **Warranty of Title.** THIS ASSIGNMENT IS MADE WITHOUT WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, EXCEPT THAT ASSIGNOR WARRANTS AND WILL DEFEND THE LEASES CONVEYED UNTO ASSIGNEE FROM AND AGAINST ALL PERSONS CLAIMING THE LEASES OR ANY PART THEREOF BY, THROUGH OR UNDER ASSIGNOR, BUT NOT OTHERWISE. This Assignment is made subject and subordinate to (i) all instruments of title or other documents of record and (ii) all reservations, restrictions and conditions contained or

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referred to in prior deeds, leases, licenses, easements, rights of way, encumbrances, pledges, instruments, and other title documents of record affecting or pertaining to the leased premises.

- 3. **Third Party Beneficiaries.** Nothing contained herein is intended or shall be deemed to create or confer any rights upon any third person not a party hereto, whether as a third-party beneficiary or otherwise, except as expressly provided herein; nor shall anything contained herein be construed to create any partnership, agency, joint venture or like relationship between Assignee and Assignor.
- 4. **Further Assurances.** Assignor and Assignee agree to take such further actions and to execute, acknowledge and deliver all such further documents as are reasonably requested by the other Party for carrying out the purposes of this Assignment.
- 5. **Binding Effect.** This Assignment shall extend and inure to the benefit of Assignor and Assignee and their respective successors or assigns.
- 6. **Counterparts.** This Assignment may be executed in counterparts, each of which shall be deemed an original instrument, but all such counterparts together shall constitute but one agreement.

IN WITNESS WHEREOF, the Parties have caused this Assignment to be effective as of the date first set forth above.

**ASSIGNOR:**

ALLIANCE PETROLEUM CORPORATION

By: *Bradley G. Gray*

Name: Bradley G. Gray

Title: EVP + COO

**ASSIGNEE:**

BB LAND, LLC

By: \_\_\_\_\_

Name: Brian Paugh

Title: Vice President of Land, BB Land

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STATE OF: ~~OHIO~~ Alabama  
COUNTY OF: ~~STARK~~, TO WIT: Jefferson

I, Sylvia D. Lewis, a Notary Public in and for the County and State aforesaid, do hereby certify that the following Bradley G. Gray, signed to the foregoing writing, bearing date the 17<sup>th</sup> day of December 2018, has this day acknowledged the same before me in my said County.

Given under my hand and seal this 17<sup>th</sup> day of December 2018.

  
Notary Public

My Commission expires: April 13, 2022

STATE OF WEST VIRGINIA  
COUNTY OF HARRISON, TO WIT:

I, \_\_\_\_\_, a Notary Public in and for the County and State aforesaid, do hereby certify that the following Brian Paugh, Vice President of Land, BB Land, signed to the foregoing writing, bearing date the \_\_\_\_\_ day of December 2018, has this day acknowledged the same before me in my said County.

Given under my hand and seal this \_\_\_\_\_ day of December 2018.

\_\_\_\_\_  
Notary Public

My Commission expires: \_\_\_\_\_

This document was prepared by and when recorded return to:  
**BB Land, LLC**  
**P.O. Box 380, Bridgeport, WV 26330**

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Office of Oil and Gas

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EXHIBIT "A" WV Department of  
Environmental Protection

- 1.) The James A. Powell and Judith Woody Powell Oil and Gas Leasehold granted by that certain oil and gas lease dated the 15th of November, 1977, from James A. Powell and Judith Woody Powell, his wife, to J. E. Olds and recorded in the Office of the Clerk of the County Commission of Pleasants County, in Deed Book 148, page 558, together with any and all amendments, ratifications, and/or modifications thereto.

4707302583 12/21/2018



**JAY-BEE OIL & GAS, INC.**

May 21, 2018

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

RE: P4S5U Well

Permitting Office:

As you know we have applied for a well permit for the P4S5U Well in Pleasants County, West Virginia. This pad is located on what we call the P7019 tract. County Route 7/3 and 3/11 run south 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

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4707302583 12/21/2018

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

Date of Notice Certification: 05/21/2018

API No. 47- \_\_\_\_\_  
Operator's Well No. P4S5U  
Well Pad Name: P4

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	493,998.48
County:	Pleasants		Northing:	4,364,084.91
District:	Union	Public Road Access:	Arvilla Rd (CR7)	
Quadrangle:	Bens Run 7.5'	Generally used farm name:	John & Edith Smith	
Watershed:	Middle Island Creek			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**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.

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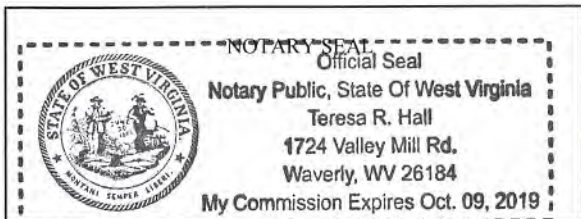
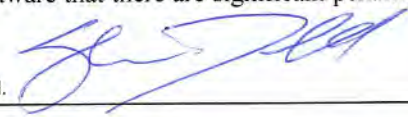
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12/21/2018

**Certification of Notice is hereby given:**

THEREFORE, I Shane Dowell, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification 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  
Telephone: 304-628-3111

Address: 3570 Shields Hill Rd.  
Cairo, WV 26337  
Facsimile: 304-628-3119  
Email: sdowell@jaybeoil.com



Subscribed and sworn before me this 21<sup>st</sup> day of May 2018.  
Teresa R. Hall Notary Public  
My Commission Expires Oct 9<sup>th</sup> 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** \_\_\_\_\_ **Date Permit Application Filed:** \_\_\_\_\_

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Jay-Bee Oil & Gas, Inc.  
Address: 3570 Shields Hill Rd  
Cairo, WV 26337

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Jay-Bee Oil & Gas, Inc.  
Address: 3570 Shields Hill Rd  
Cairo, WV 26337

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OPERATOR

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Jay-Bee Oil & Gas, Inc.  
Address: 3570 Shields Hill Rd  
Cairo, WV 26337

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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Environmental Protection

4707302583

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/and-gas/pages/default.aspx](http://www.dep.wv.gov/and-gas/pages/default.aspx).

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**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 one 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

WV Department of Environmental Protection

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 as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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.**

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MAY 23 2018  
WV Department of  
Environmental Protection

**Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files 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.

RECEIVED  
Office of Oil and Gas  
MAY 23 2018  
WV Department of  
Environmental Protection

**Notice is hereby given by:**

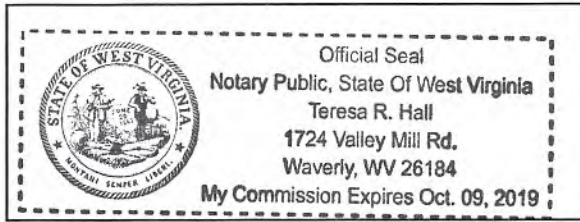
Well Operator: Jay-Bee Oil & Gas, Inc.  
Telephone: 304-628-3111  
Email: sdowell@jaybeeoil.com

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](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 21<sup>st</sup> day of May, 2018.

Teresa R. Hall Notary Public

My Commission Expires Oct 9<sup>th</sup> 2019

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Office of Oil and Gas

MAY 23 2018

WV Department of  
Environmental Protection

P4 WW6A Notice Recipients

<b>First</b>	<b>Surname</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
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
Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd	Cairo	WV	26337
Darin ✓	Barber	11378 Dupont Rd.	Washington	WV	26181
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
Lenora ✓	Coartney	4969 Arvilla Rd.	Friendly	WV	26146
William ✓	Everett	5536 Arvilla Rd	Friendly	WV	26146

RECEIVED  
 Office of Oil and Gas  
 MAY 23 2018  
 WV Department of  
 Environmental Protection

4707302583

**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)\_\_\_/ 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
- (5) WW6A1 X WMP X WW6RW/AW X

--all with respect to operator's Well No. P4S5U located in Union District, Pleasants County, West Virginia, upon the person or organization named--

BB Land, LLC

--by delivering the same in Harrison County, State of West Virginia on the 21st day of May, 2018 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:

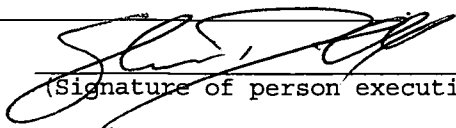
[ ] Handing it to \_\_\_\_\_, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

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\_\_\_/ officer X / director\_\_\_/ attorney in fact\_\_\_/ named Brian Paugh

  
(Signature of person executing service)

Taken, subscribed and sworn before me this \_\_\_ day of \_\_\_\_\_ 20\_\_\_.  
My commission expires \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

RECEIVED  
Office of Oil and Gas  
MAY 23 2018  
WV Department of  
Environmental Protection

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) \_\_\_ / 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
- (5) WW6A1 X WMP X WW6RW/AW X

--all with respect to operator's Well No. P4S5U located in Union District, Pleasants County, West Virginia, upon the person or organization named--

Jay-Bee Oil & Gas, Inc  
--by delivering the same in Harrison County, State of West Virginia  
on the 21st day of May, 2018 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:

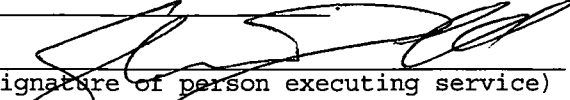
[  ] Handing it to \_\_\_\_\_, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

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:

[  ] 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 \_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.  
My commission expires \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



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Office of Oil and Gas  
MAY 23 2018  
WV Department of  
Environmental Protection

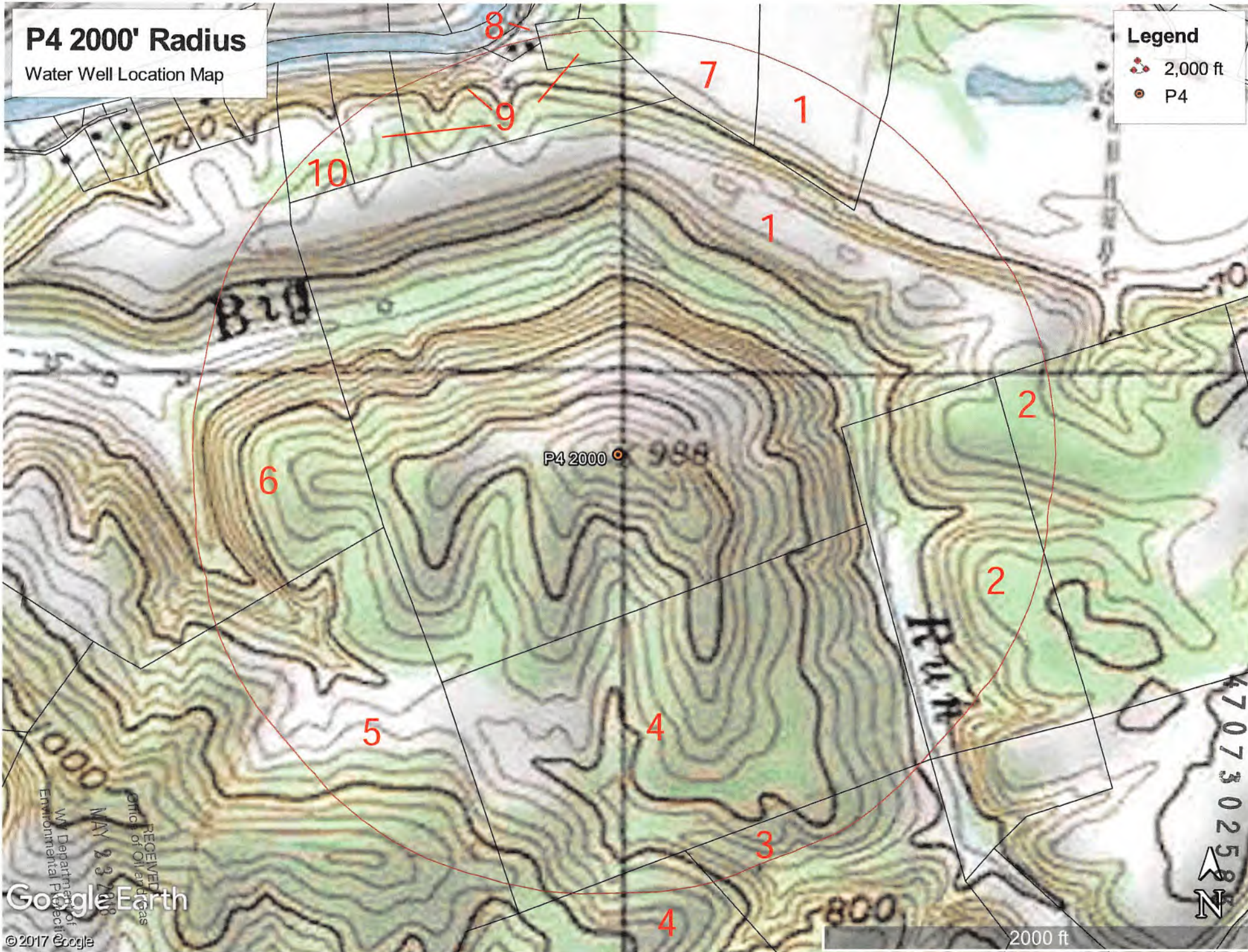


# P4 2000' Radius

Water Well Location Map

## Legend

-  2,000 ft
-  P4



Google Earth

© 2017 Google

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MAY 23 2008  
Office of Oil and Gas  
Environmental Protection  
NY Department of  
Environmental Protection



2000 ft

P4 Topo Water Well Reference

<b>Reference</b>	<b>Map</b>	<b>Parcel</b>	<b>First</b>	<b>Surname</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
1	11; 6	16; 106	John & Edith	Smith	4556 Arvilla Rd	Friendly	WV	26146
2	11	17, 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	32	Linda Lou Fetty et al		2385 Left French Creek Road	St. Marys	WV	26170
5	11	28, 29	Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd	Cairo	WV	26337
6	11	27	Darin	Barber	11378 Dupont Rd.	Washington	WV	26181
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
Surface	12	1	Lenora	Coartney	4969 Arvilla Rd.	Friendly	WV	26146
Only	11	20	William	Everett	5536 Arvilla Rd	Friendly	WV	26146

4707302583

4707302385  
12/21/2018

WW-2B1

Well No. P4S5U

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:

<u>        </u>	Contractor Name	<u>Reliance Laboratories</u>
<u>X</u>	Well operator's private laboratory	
	Well Operator	<u>Jay-Bee Oil &amp; Gas, INC</u>
	Address	<u>3570 Shields Hill Rd / 1720 Route 22 East</u>
		<u>Cairo, WV 26337 / Union, NJ 07083</u>
	Telephone	<u>304-628-3111</u>

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.

RECEIVED  
Office of Oil and Gas  
MAY 23 2018  
WV Department of  
Environmental Protection

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

**Notice Time Requirement:** Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

**Date of Notice:** 05/11/2018      **Date of Planned Entry:** 05/18/2018

**Delivery method pursuant to West Virginia Code § 22-6A-10a**

- PERSONAL SERVICE     
 REGISTERED MAIL     
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

**Notice is hereby provided to:**

SURFACE OWNER(s)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: Berry Properties, LLC  
Address: 2684 Merrimont Dr Troy OH 45373

\*please attach additional forms if necessary

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia  
County: Pleasants  
District: Union  
Quadrangle: Ben's Run 7.5'

Approx. Latitude & Longitude: 39.426306 x -81.069806  
Public Road Access: Arvilla Rd.  
Watershed: Middle Island Creek  
Generally used farm name: \_\_\_\_\_

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

RECEIVED  
Office of Oil and Gas

**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

MAY 23 2018

WV Department of  
Environmental Protection

**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](mailto:depprivacyofficer@wv.gov).

P455U Plat Notice Recipients

Surface Owner	Address	City	State	Zip
Berry Properties, LLC	2684 Merrimont Dr	Troy	OH	45373
John A. Smith & Edith U. Smith	4556 Arvilla Road	Friendly	WV	26146
Sara Wells Thomas Dunsford	914 East Beth Rd	Phoenix	AZ	85042
Yvonne Shelley	6435 Winding Tree Dr	New Carlisle	OH	45344
Clint Jones	8882 SW Ash Meadows Circle	Wilsonville	OR	97070
Eric Wells	2596 Chester Road	Upper Arlington	OH	43221
Roger Wells	5955 Northcliff Blvd.	Dublin	OH	43016
Roger A. Wells	5955 Northcliff Blvd.	Dublin	OH	43016
Jay Bee Royalty	3570 Shields Hill Rd	Cairo	WV	26337
James Powell	1757 N. Pleasants Highway	St. Marys	WV	26170
Jason Powell	616 Dewey Avenue	St. Marys	WV	26170
Jeffrey Powell	11729 Channingway Boulevard	The Plains	OH	45780
Joseph Powell	1691 N. Pleasants Highway	St. Marys	WV	26170
John R Tice	P.O. Box 208	St. Marys	WV	26170

RECEIVED  
 Office of Oil and Gas  
 MAY 23 2018  
 WV Department of  
 Environmental Protection

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)\_\_\_ WSSP\_\_\_
- (2) Application on Form WW-2(B)\_\_\_/ WW-3(B)\_\_\_/ WW-4(B)\_\_\_/ WW-5(B)\_\_\_/ WW-6(B)\_\_\_ E&S\_\_\_
- (3) Plat showing the well location on Form WW-6, and\_\_\_ WW-6A5\_\_\_ MSDS\_\_\_
- (4) Construction and Reclamation Plan on Form WW-9\_\_\_
- (5) WW6A3 X WMP WW6RW/AW

--all with respect to operator's Well No. P4S5U located in Union District, Pleasants County, West Virginia, upon the person or organization named--

Jay-Bee Oil & Gas, Inc

--by delivering the same in Harrison County, State of West Virginia on the 11th day of May, 2018 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\_\_\_/ officer X/ director\_\_\_/ attorney in fact\_\_\_/ named Brian Paugh

  
(Signature of person executing service)

Taken, subscribed and sworn before me this \_\_\_ day of \_\_\_\_\_ 20\_\_\_.  
My commission expires \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

RECEIVED  
Office of Oil and Gas  
MAY 23 2018  
WV Department of  
Environmental Protection

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County Of Harrison

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- (2) Application on Form WW-2(B)\_\_\_/ WW-3(B)\_\_\_/ WW-4(B)\_\_\_/ WW-5(B)\_\_\_/ WW-6(B)\_\_\_ E&S\_\_\_
- (3) Plat showing the well location on Form WW-6, and\_\_\_ WW-6A5\_\_\_ MSDS\_\_\_
- (4) Construction and Reclamation Plan on Form WW-9
- (5) WW6A3X WMP\_\_\_ WW6RW/AW

--all with respect to operator's Well No. P4S5U located in Union District, Pleasants County, West Virginia, upon the person or organization named--

BB Land, LLC

--by delivering the same in Harrison County, State of West Virginia on the 11<sup>th</sup> day of May, 2018 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.

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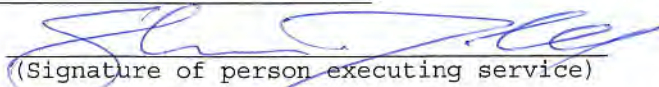
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For a corporation:

[X] Handing it to the corporation's employee\_\_\_/ officer<sup>X</sup>\_\_\_/ director\_\_\_/ attorney in fact\_\_\_/ named Brian Paugh.

  
(Signature of person executing service)

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My commission expires \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

RECEIVED  
Office of Oil and Gas  
MAY 23 2018  
WV Department of  
Environmental Protection

12/21/2018

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 67 03 2583  
NOTICE OF PLANNED OPERATION

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 05/18/2018 **Date Permit Application Filed:** 05/21/2018

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**  
(at the address listed in the records of the sheriff at the time of notice):

Name: Jay-Bee Oil & Gas, Inc.  
Address: 3570 Shields Hill Rd Cairo WV 26337

Name: BB Land, LLC  
Address: 75 Crosswinds Drive Bridgeport WV 26330

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	493.998.48
County:	Pleasants		Northing:	4,364,084.91
District:	Union	Public Road Access:	Arvilla Rd (CR7)	
Quadrangle:	Bens Run 7.5'	Generally used farm name:	John & Edith Smith	
Watershed:	Middle Island Creek			

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Jay-Bee Oil & Gas, Inc.  
Telephone: 304-628-3111  
Email: sdowell@jaybeoil.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](mailto:depprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection



4707302583

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

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 05/18/2018      **Date Permit Application Filed:** 05/21/2018

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

CERTIFIED MAIL                               HAND  
RETURN RECEIPT REQUESTED                      DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

**Notice is hereby provided to the SURFACE OWNER(s)**

(at the address listed in the records of the sheriff at the time of notice):

Name: John & Edith Smith  
Address: 4556 Arvilla Rd Friendly WV 26146

Name: Linda Lou Fetty et al  
Address: 2385 Left French Creek Road St. Marys WV 26170

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83    Easting:	<u>493,998.48</u>
County:	<u>Pleasants</u>	Northing:	<u>4,364,084.91</u>
District:	<u>Union</u>	Public Road Access:	<u>Arvilla Rd (CR7)</u>
Quadrangle:	<u>Bens Run 7.5'</u>	Generally used farm name:	<u>John &amp; Edith Smith</u>
Watershed:	<u>Middle Island Creek</u>		

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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](mailto:depprivacyofficer@wv.gov).

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

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**Date Permit Application Filed:** 05/21/2018

**Delivery method pursuant to West Virginia Code § 22-6A-16(c)**

- CERTIFIED MAIL**  
 **HAND**  
 RETURN RECEIPT REQUESTED      DELIVERY

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**Notice is hereby provided to the SURFACE OWNER(s)**

(at the address listed in the records of the sheriff at the time of notice):

Name: Lenora Coartney  
Address: 4969 Arvilla Rd, Friendly WV 26146

Name: William Everett  
Address: 5536 Arvilla Rd Friendly WV 26146

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner’s land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>493,998.48</u>
County:	<u>Pleasants</u>		Northing:	<u>4,364,084.91</u>
District:	<u>Union</u>	Public Road Access:	<u>Arvilla Rd (CR7)</u>	
Quadrangle:	<u>Bens Run 7.5'</u>	Generally used farm name:	<u>John &amp; Edith Smith</u>	
Watershed:	<u>Middle Island Creek</u>			

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Address: 3570 Shields Hill Rd.  
Cairo, WV 26337  
Facsimile: 304-628-3119

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**OIL AND GAS ROAD  
DISTRICT WIDE BONDING AGREEMENT  
For DOH District 3**

12/21/2018

THIS AGREEMENT, executed in duplicate, made and entered into this 26<sup>th</sup> day of August, 2016, by and between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, hereinafter called "DEPARTMENT," and JAY-BEE OIL & GAS, Inc, 1720 US Highway 22E #1, Union, NJ 07083-6126, a New Jersey company, hereinafter called "COMPANY."

**WITNESSETH:**

**WHEREAS**, Company has horizontal gas well drilling operations in certain areas of West Virginia; and

**WHEREAS**, the Department believes that the frequent and repetitive use of certain sections of highways in the State by Company, its contractors, agents, independent contractors or suppliers of drilling materials or drilling equipment, and employees contributes to increased wear and tear to public roads in the state road system in the State, including local roads ("State Owned Roads"); and,

**WHEREAS**, the Department and Company have entered into this Agreement to satisfy the requirements of the Department's policy entitled "Oil & Gas Road Policy" dated January 3, 2012, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways, and any subsequent related policies, hereinafter called "Policy", a copy of which is made a part of this Bonding Agreement and is identified as Attachment 1.

**NOW, THEREFORE**, for and in consideration of the mutual agreements hereinafter set forth, the parties agree as follows:

I. For purposes of this Bonding Agreement, "Project Transportation Usage" of the Company shall be understood to mean use of one or more State Owned Roads for the delivery and removal of drilling materials and drilling equipment at the site or location of one or more of Company's horizontal gas well pad locations. To the extent reasonably practical, prior to commencing use of a State Owned Road for Project Transportation Usage after January 1, 2011, the Company shall submit to the Department a section or sections of current official WVDOH County Highway maps identifying the exact location of the proposed project and the State Owned Roads that the Company will utilize for the Project Transportation Usage.

II. Company and Department shall within 14 days of the Company's submittal, agree to a list of these sections of State Owned Roads, hereinafter called "Project Roads List", to be utilized for each of Company's projects, identified by route number and milepost; at a time to be mutually agreed to by the parties prior to initial commencement of Project Transportation Usage of a particular State Owned Road on a Project Roads List, the Company and Department will jointly review the condition of the roads and bridges on the Project Roads List. The Department will document the road type and surface condition and general right-of-way width of each section of road on the Project Road List. Either party may supplement this documentation with photographs, video or other evidence of the present condition of the road surface, shoulders, ditches, culverts, bridges or other structures or appurtenances of roads on the Project Road List, as well as approaches to the roads, utility facilities located within or along the right-of-way, or any other condition, including third-party activities, that may affect the duties and responsibilities of the parties under this Agreement. A copy of any such documentation must be made and provided to the other party within ten business days after the joint review of the roads on the Project Roads List.

III. Department shall issue a Project Agreement or Project Permit, as appropriate, to Company to use State Owned Roads and may include any minor or major improvements required of Company prior to, during or after Project with the assignment of responsibilities of both parties prior to, during and after the operator has completed well fracturing.

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WV Department of  
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IV. In the Project Agreement/Project Permit, the Department shall not require the use of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List. 12/21/2018

V. For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all reasonable maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that were directly damaged by Company's Project Transportation Usage, as determined to be reasonably necessary and appropriate by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.

VI. Company shall be responsible for the cost of all maintenance and repairs reasonably necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage. Company shall also not be required to pay for maintenance or repairs to any areas of these roadways, bridges or appurtenances on the Project Roads List that are not actually utilized for the Project Transportation Usage or for damage not caused by Project Transportation Usage.

VII. Company shall notify the Department in writing of Company's final completion of Project Transportation Usage for particular roadways, bridges and appurtenances on the Project Roads List. Within fourteen days after its receipt of written notification of the completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition reasonably deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department.

VIII. In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "**Master Bond**", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department, not to be unreasonably withheld. The amount and form of the bond shall be in accordance with the Policy as set forth above. However, the amount of the Master Bond does not limit the amount of claims that may be made by the Department against the Company under this Bonding Agreement. The Company shall provide the Master Bond to the Department within one (1) month after the execution of this Bonding Agreement. The Master Bond shall secure the good faith performance of all payment obligations of Company under the terms of this Bonding Agreement respecting the roads, bridges and appurtenances on the Project Roads List for each Project Transportation Usage undertaken by the Company, and shall remain in effect until termination of this Agreement. Company shall not be obligated to provide any other bonds, sureties, or other guarantees of performance to the Department for Company's use of State Owned Roads, except as required in this Agreement.

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**IX.** Company shall maintain Commercial General Liability Insurance in the amount of two million dollars, with a minimum coverage of one million dollars per occurrence, for personal injury or death to persons, or for property damage, resulting from Company's Project Transportation Usage and shall present evidence of such insurance to Department upon request.

12/21/2018

**X.** Company's usage of State Owned Roads under the Project Agreement/Project Permit shall comply with all applicable Federal, State and local laws and regulations including, but not limited to, to the extent applicable, the National Environmental Policy Act, Section 404 of the Clean Water Act, Section 106 of the National Historic Preservation Act, Rare, Threatened and Endangered Species Act, Section 401 Water Quality Certification, and hazardous waste requirements. Further, upon reasonable written request of Department, Company shall furnish Department with acceptable documentation of such compliance which is in the possession of the Company.

**XI.** Company shall defend, indemnify and hold Department harmless from and against any and all losses, damage, and liability, and from all claims for damages on account of or by reason of bodily injury, including death, which may be sustained, or claimed to be sustained, by any person or persons, including employees of Department, and from and against any and all claims, losses or liabilities for damages to property, arising out of the negligent or willful acts or omissions of Company, its agents, independent contractors and suppliers of drilling materials or drilling equipment, employees and contractors, in the performance of all Project Transportation Usage activities undertaken pursuant to this Agreement (collectively, "claims"). The Company shall not be responsible to indemnify, defend or hold harmless Department for any claims caused by the negligent or willful acts or omissions of the Department or its agents, employees and contractors or third parties not performing work at the direction of Company or delivering drilling equipment or drilling materials, including water, for use by or for company.

**XII.** If a provision of this Agreement is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability of any other provision of this Agreement; or the validity or enforceability in other jurisdictions of that or any other provision of this Agreement.

**XIII.** Department shall give Company a minimum of thirty days written notice of default under the terms of this Bonding Agreement and the opportunity to cure this default during such thirty-day period. If a default is not cured to the satisfaction of Department, or provision acceptable to Department is not made for a cure, Department may then elect to terminate this Bonding Agreement in whole or in part, and may in addition exercise its rights under the Master Bond or seek any other lawful relief available. Company may terminate this Bonding Agreement upon thirty days written notice to Department for any reason. In the event Company terminates this Agreement for any reason, it shall be liable for the repair and maintenance costs set forth above for prior Project Transportation Usage.

**XIV.** Nothing herein shall be construed to mean that Company shall have any jurisdiction or control over any public roads in the state road system.

**XV.** Company, its contractors, agents, employees and suppliers shall at all times be subject to applicable provisions of state and federal law, including without limitation laws requiring operation of vehicles in accordance with legal size and weight restrictions and posted weight limits. Oversize/overweight permits for vehicle or loads not otherwise conforming with law must be obtained in accordance with law; Department agrees to work in good faith with Company to review and grant (where authorized by law) such permits in a timely manner upon request by Company.

**XVI.** This Bonding Agreement shall be construed and enforced in accordance with the laws of the State of West Virginia, as they may be amended.

**XVII.** This Bonding Agreement shall be binding upon the successors and assigns of each party hereto.

**IN WITNESS WHEREOF**, the parties hereto have caused this Bonding Agreement to be signed and sealed this 23rd day of May, 2018.

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be executed by their duly authorized officers effective as of the date first above written.

12/21/2018

WEST VIRGINIA DEPARTMENT OF  
TRANSPORTATION,  
DIVISION OF HIGHWAYS

Suzanne M. Redne  
Witness *OHZ*

By: *Gregory Bailey*  
Gregory L. Bailey, PE  
State Highway Engineer

*[Signature]*  
Witness

*[Signature]*  
By: Randy Broda  
Title: President

(To be executed in duplicate)

*C.B. Maccho*  
APPROVED AS TO FORM THIS  
24th DAY August, 2016  
ATTORNEY LEGAL DIVISION  
WEST VIRGINIA DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
1608125

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Office of Oil and Gas 12/21/2018

DEC 20 REC'D

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION AND ENVIRONMENTAL PROTECTION

### 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

Jill M. Newman  
Deputy Commissioner

July 19, 2018

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

Subject: DOH Permit for the P4 Pad, Pleasants County  
P4S5U 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

Cc: Shane Dowell  
Jay-Bee Oil & Gas, Inc.  
CH, OM, D-6  
File

12/21/2018

4707302583



**JAY-BEE OIL & GAS, INC.**

Permitting Office  
Office of Oil and Gas  
West Virginia Dept. of Environmental Protection  
601 57<sup>th</sup> 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)
- Citric Acid (77-92-9)
- Guar Gum (9000-30-0)
- Corrosion Inhibitor (67-56-1, 107-19-7)
- Surfactant (111-76-2)

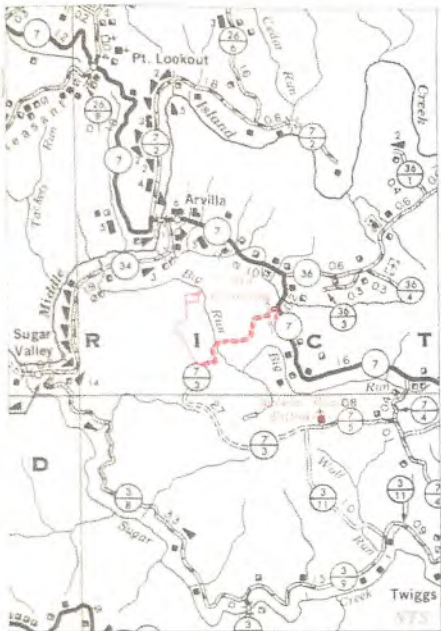
If you would have any questions concerning this matter, please feel free to contact our office at the numbers listed below.

Sincerely,

Shane Dowell  
Office Manager

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MAY 23 2018  
WV Department of  
Environmental Protection



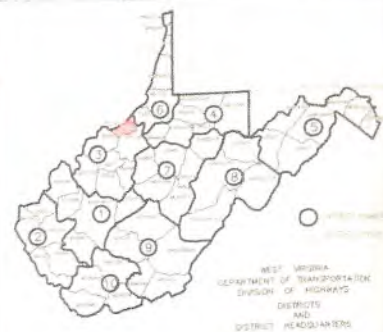


# P4 Well Pad Site Plan Modification

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

Date: May 07, 2018

**APPROVED  
WVDEP OOG**  
WVS 6/8/2018



Revisions

05-07-2018	Revised Road
05-31-2018	Revised detail

**WEST VIRGINIA 811**  
CALL BEFORE YOU DIG!  
800.245.4848  
www.WV811.com

Note:  
No water wells were found within 250' of the well location. No drawings were found within 625' of the center of the well pad.



Sheet	Description
1	Cover
2	Details & Notes
3	Details
4	Details
5	Details
6	Details
7	Road Plan & Profile
8	Road Plan & Profile
9	Road Plan & Profile
10	Road Plan & Profile
11	Road Plan & Profile
12	Road Plan & Profile
13	Road Plan & Profile
14	Road Plan & Profile
15	Road Plan & Profile
16	Road Plan & Profile
17	Road Plan & Profile
18	Road Plan & Profile
19	Road Plan & Profile
20	Road Plan & Profile
21	Road Plan
22	Cut-Fill Diagram
23	Pad Sections
24	Road Cross Sections
25	Road Cross Sections
26	Road Cross Sections
27	Road Cross Sections
28	Road Cross Sections
29	Road Cross Sections
30	Reclamation Plan

**CENTER PAD**  
Geographic: NAD 83  
Latitude: 39.426356  
Longitude: 81.908528

**CENTER ROAD INT.**  
(Sta. 0+00)  
Geographic: NAD 83  
Latitude: 39.426372  
Longitude: 81.908536

Note: Stream and Wetland delineation are from Allstar Ecology report dated November 21, 2017. All property lines shown are approximate and have not been field verified. Stream Impact chart on Sheet 2.

TOTAL LIMIT OF DISTURBANCE  
1200' IN ALL DIRECTIONS

**Design Certification**  
The drawings, construction notes and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas.  
The information reflects a gas well pad and access road.

Dennis L. Fisher RPE 6884  
Dennis L. Fisher, PE  
Date: 05-11-2018



**North Central Engineering, LLC**  
Dennis L. Fisher, RPE  
P.O. Box 525  
Bridgman, WV 26030  
Tel: 304-877-4129  
E-Mail: Dennis.Fisher@NorthCentralEngineering.com

**Jackson Surveying Inc**

COVER  
SHEET 1  
P4 Well Pad

877 W Main St  
Charleston, WV 25302  
304-623-3801

*JLF 12/21/18*

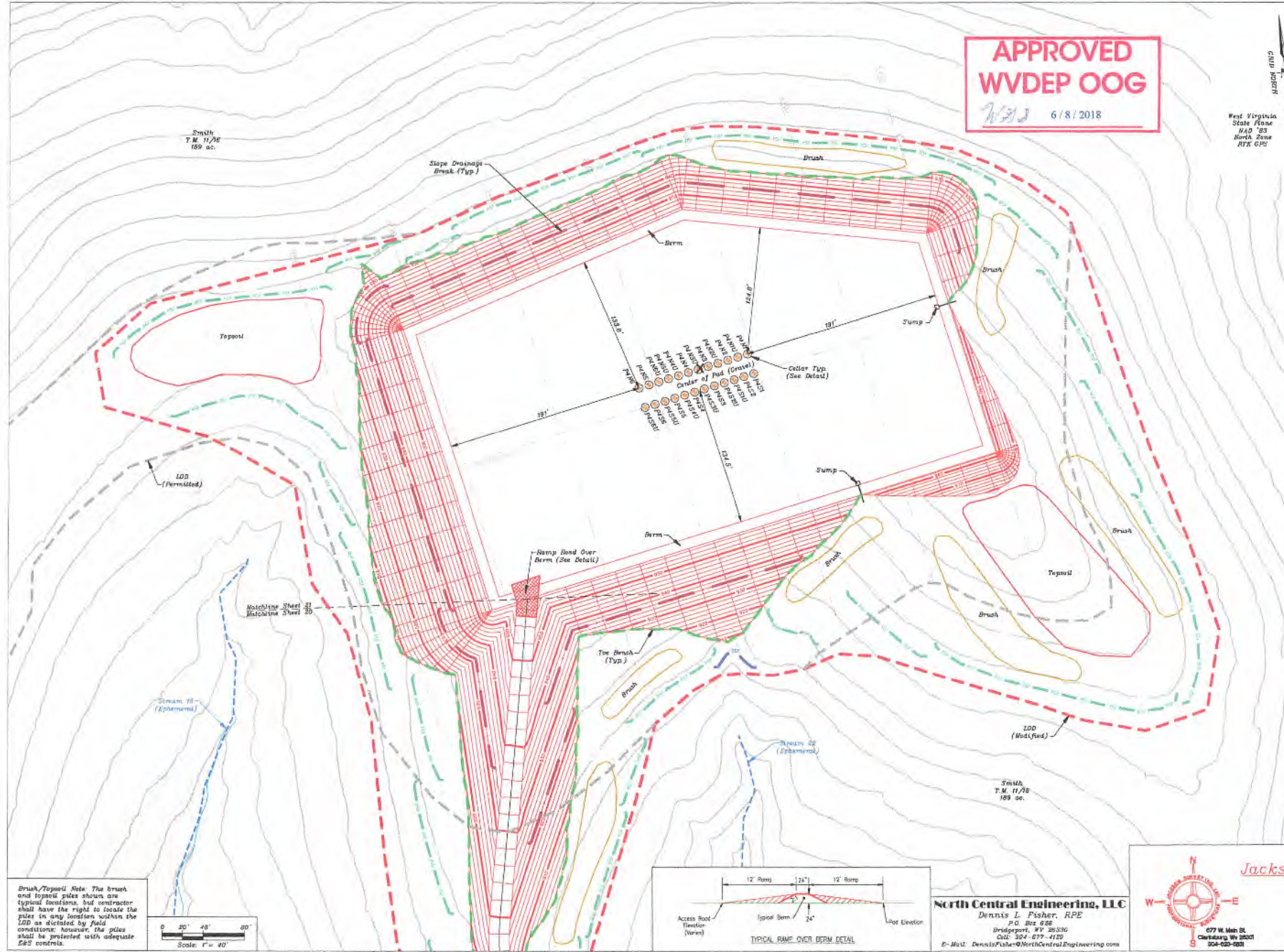
**APPROVED**  
**WVDEP OOG**  
6/8/2018

**LEGEND**

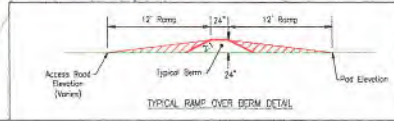
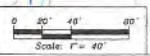
Existing Features	—
Proposed Features	—
Right of Way	—
Permitted LOD	—
Modified LOD	—
Property Line	—
Creek	—
Drain	—
Existing Fence	—
Proposed Fence	—
Outline	—
Overhead Utilities	—
Reinforced Silt Fence	—
Super Silt Fence	—
Ditch	—
Hyrap	—

**CENTER PAD**  
Geographic NAD 83  
Latitude: 39.426356  
Longitude: 81.053598

**CENTER ROAD INT.**  
(Sta. 0+00)  
Geographic NAD 83  
Latitude: 39.426779  
Longitude: 81.053316



**Brush/Tripod Note:** The brush and tripod piles shown are typical locations, but contractor shall have the right to locate the piles in any location within the LOD as dictated by field conditions; however, the piles shall be protected with adequate E&S controls.



**North Central Engineering, LLC**  
Dennis L. Fisher, RPE  
P.O. Box 688  
Bridgetown, WV 26036  
Cell: 504-677-4129  
E-Mail: Dennis.Fisher@NorthCentralEngineering.com



**Jackson Surveying Inc.**

PAD PLAN  
SHEET 21  
P4 Well Pad

12/21/18  
*[Signature]*