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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)

Tuesday, July 16, 2019  
WELL WORK PERMIT  
Horizontal 6A / New Drill

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

UNION, NJ 070830000

Re: Permit approval for P5N3U  
47-073-02587-00-00

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: P5N3U  
Farm Name: BB LAND LLC  
U.S. WELL NUMBER: 47-073-02587-00-00  
Horizontal 6A New Drill  
Date Issued: 7/16/2019

# 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

June 18, 2019

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

RE: Application for Deep Well Permit – API #47-073-02587

COMPANY: Jay-Bee Oil & Gas, Inc.

FARM: BB Land, LLC P5N3U

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? Yes, withdrawn prior to hearing
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; 47-073-02588, 47-073-02583, 47-073-02579, 47-073-02578, 47-073-02595, 47-073-02593; the following wells were permitted as deep wells but are producing from shallow formations 47-073-02484, 47-073-02502, 47-073-02495, 47-073-02428, 47-073-01314
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,

A handwritten signature in black ink that reads "Susan Rose". The signature is written in a cursive, flowing style.

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: P5N3U Well Pad Name: P5

3) Farm Name/Surface Owner: BB Land, LLC Public Road Access: Arvilla Rd.

4) Elevation, current ground: 896.1' Elevation, proposed post-construction: 868.1'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow \_\_\_\_\_ Deep   
Horizontal

6) Existing Pad: Yes or No No

*JCB*  
11/29/2018

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Point Pleasant 10,196' Depth, 256' Thickness, 8000 psi, Trenton: 10,481' Depth Thickness, 180' Thickness, 8000 psi

8) Proposed Total Vertical Depth: 10,481' TVD, 10,196' TVD (Horizontal section)

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

10) Proposed Total Measured Depth: 22,107'

11) Proposed Horizontal Leg Length: 10,408.5'

12) Approximate Fresh Water Strata Depths: 127'

13) Method to Determine Fresh Water Depths: API 47-073-00798 Freshwater, 47-073-00636 Saltwater, 47-073-00099 Coal

14) Approximate Saltwater Depths: 1,756.1'

15) Approximate Coal Seam Depths: 456.1-461.1'

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>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
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	22,107'	22,107'	4,835 Cu. Ft.
Tubing	N/A						
Liners	N/A						

*JCB*  
11/29/2018

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
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 from TD to KOP, effectively plugging the Trenton formation, and drill a Horizontal section through the Point Pleasant formation.

  
11/29/2018

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): 21.6

22) Area to be disturbed for well pad only, less access road (acres): 10.67

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

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

\*Note: Attach additional sheets as needed.

73-02587

Well Name: P33NU Pleasant County, WV  
GL Elevation: 858.1 Cement



Surface equipment 13 3/8 15K multi bowl wellhead welded to 13 3/8 string with 10X BOP system during drilling operations

Conductor 26" H40 94#/ft  
30" casing in 30" hole CTS drill on AIR

Surface 18 5/8" K-55 87.5#/ft  
300' casing in 24" hole CTS drill on AIR

Intermediate #1 13 3/8 155 61#/ft  
1,800' casing in 17 1/2" hole CTS drill on AIR

Intermediate #2 9 5/8 HCP110 47#/ft  
7,100' casing in 11 1/4" hole Cement in to Intermediate #1 string drill on AIR

Production 5 1/2 P-110 23#/ft  
22,107' casing in 8 1/2" hole Cement into Intermediate #2 string 1500' from surface drill on OBM Fluid

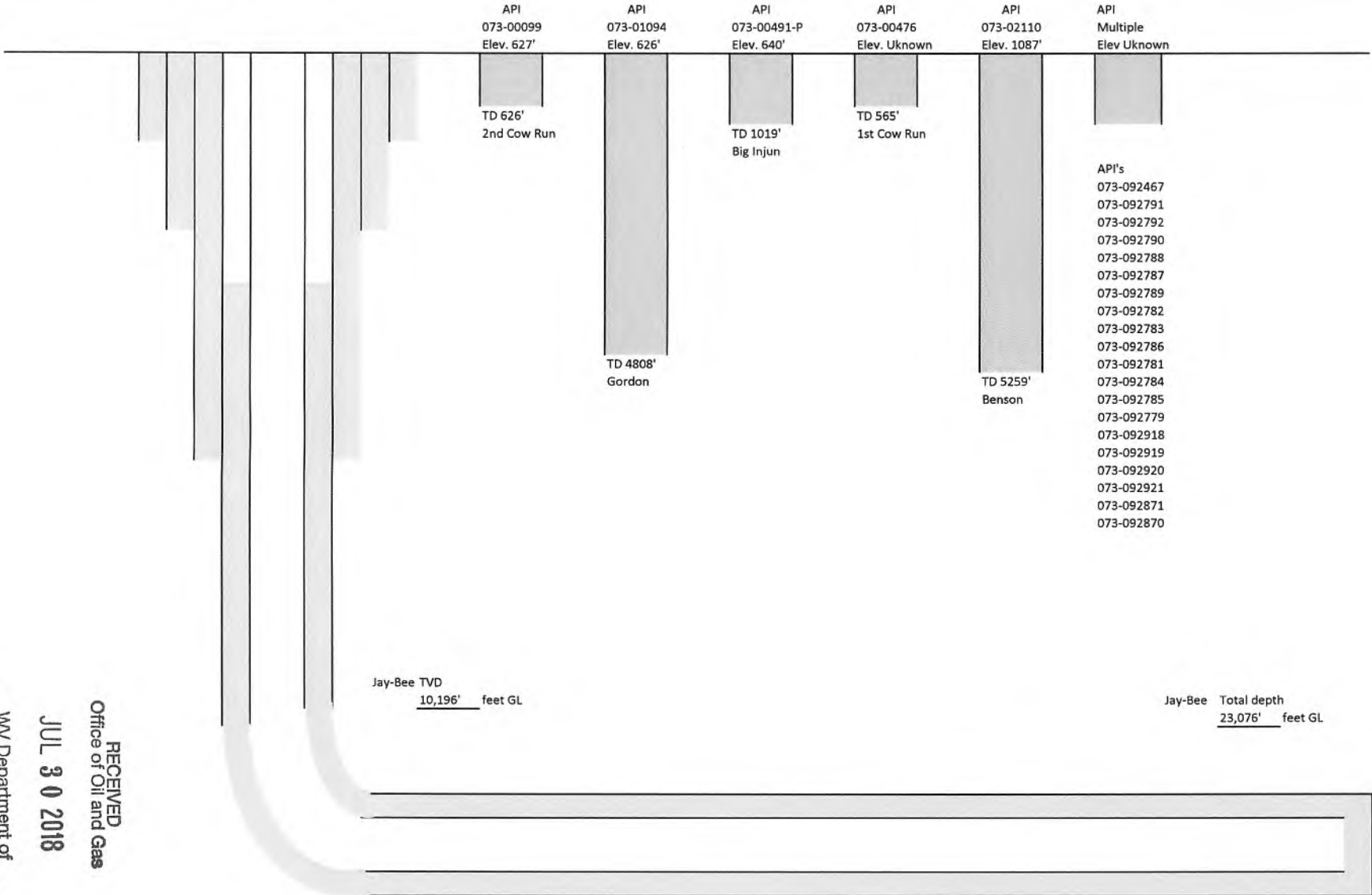
Total depth  
22,107'

11/30/2018  
gcb



Jay-Bee Oil & Gas Inc.  
 Well Name P5N3U  
 GL Elevation 868.1'

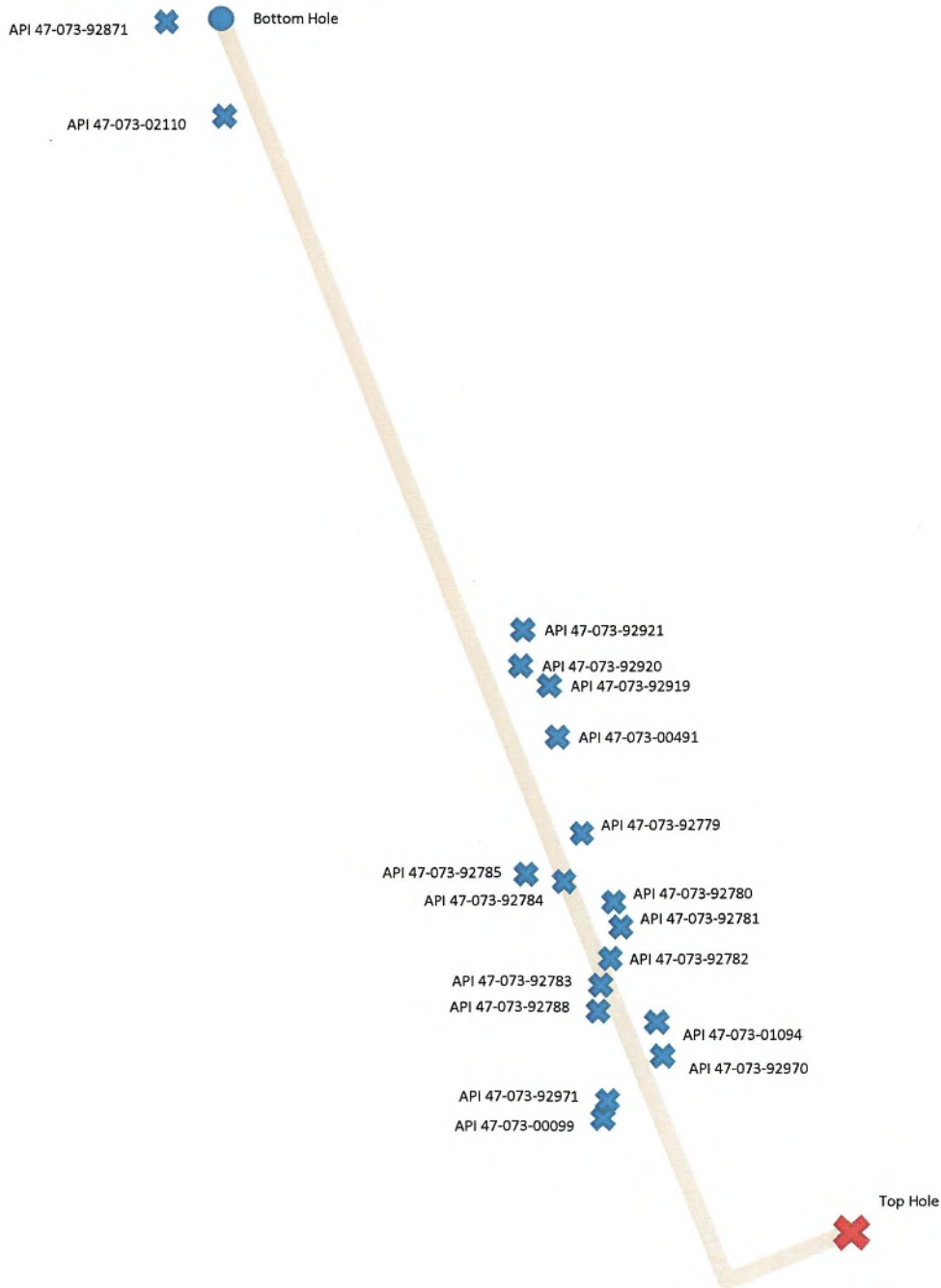
### Well-Site Safety Plan Anti-Collision Schematic



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**JUL 30 2018**  
 WV Department of  
 Environmental Protection

173-02587

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



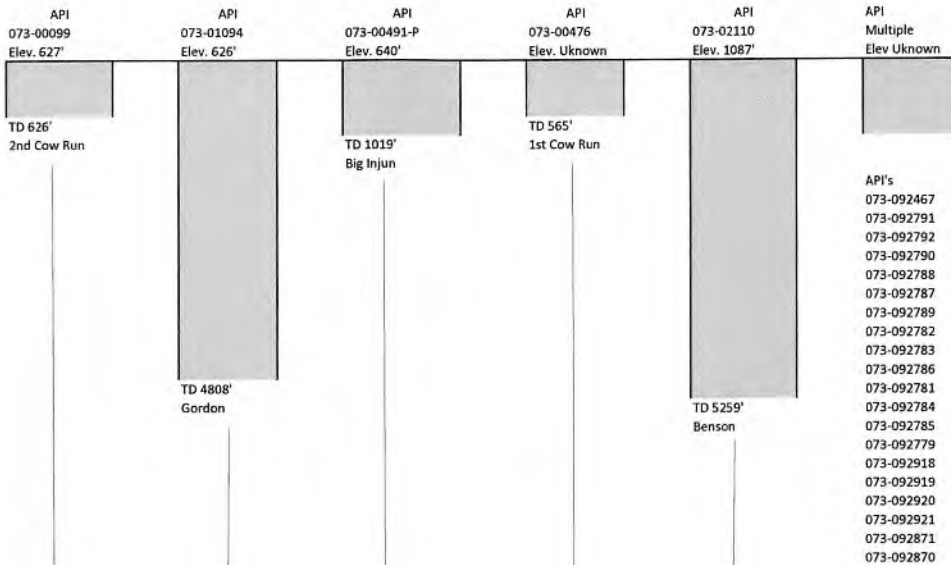
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WV Department of  
Environmental Protection

**Area of Review**

P5N3U - API Pending

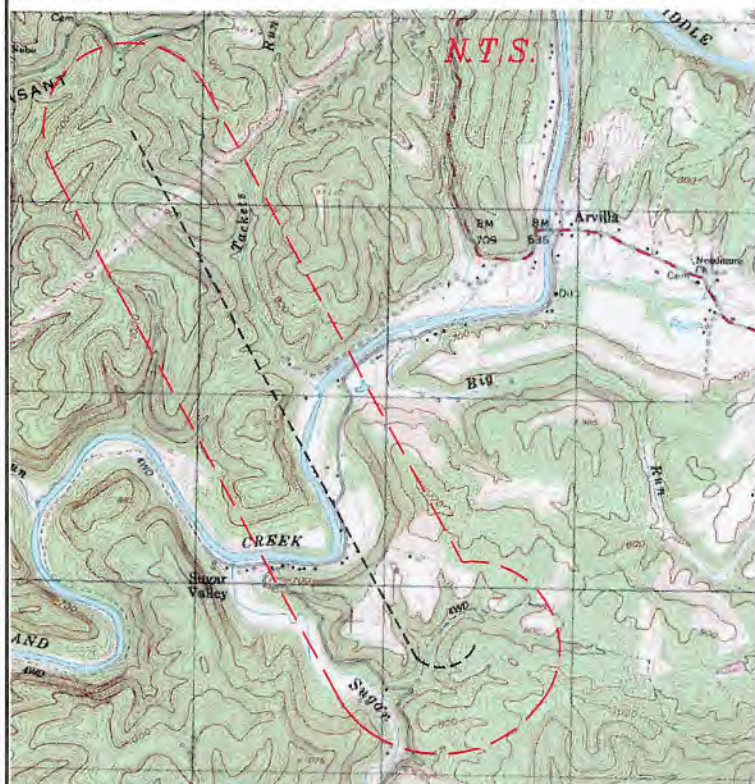
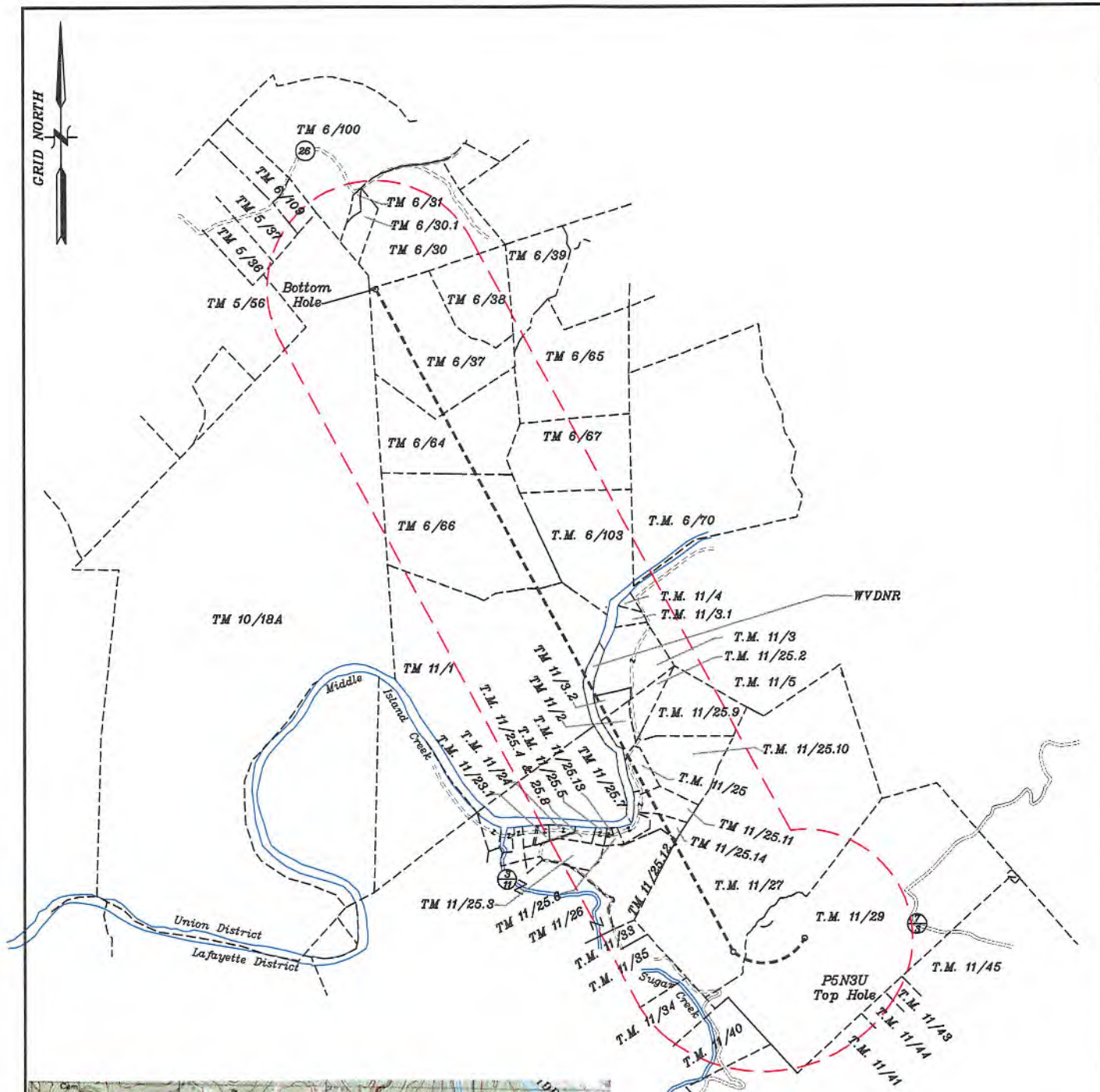


Operator	Dinsmoor & Co.	Gedco Oil & Gas	Tacket Oil Co.	CJ Barnhart	Wapiti Exploration Co.	Unknown
Well Name	ML Smith 14	Hazel Fell 2	EK Williamson 1	WH Barnhart 1	Westvaco 1	Unknown
Perforated Formations	Cow Run	Gordon	Big Injun	Cow Run	Benson	Unknown
Unperforated Producing Formations		Gantz	Keener		Riley	
		Berea	Big Lime		Speechley	
		Weir	Maxon		Warren	
		Big Injun	Big Dunkard		Gordon	
		Keener	Little Dunkard		Gantz	
		Big Lime	Cow Run		Berea	
		Maxon			Weir	
		Big Dunkard			Big Injun	
		Little Dunkard			Keener	
		Cow Run			Big Lime	
				Maxon		
				Big Dunkard		
				Little Dunkard		
				Cow Run		

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WV Department of  
Environmental Protection



Jay Bee  
Oil & Gas  
DRILLING  
into the future

OPERATOR'S  
WELL #: P5N3U (02587)  
DISTRICT: UNION  
COUNTY: PLEASANTS  
STATE: WV

12/04/2018  
1500' EXHIBIT  
PAGE 1 OF 2  
--- 1,500' from Bore Path  
----- Surface Tracts



73-02587



High St, St Marys, WV 26170 to 5091 Arvilla Rd, Bens Run, WV 26146

Drive 12.6 miles, 20 min



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

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 WV Department of  
 Environmental Protection

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.

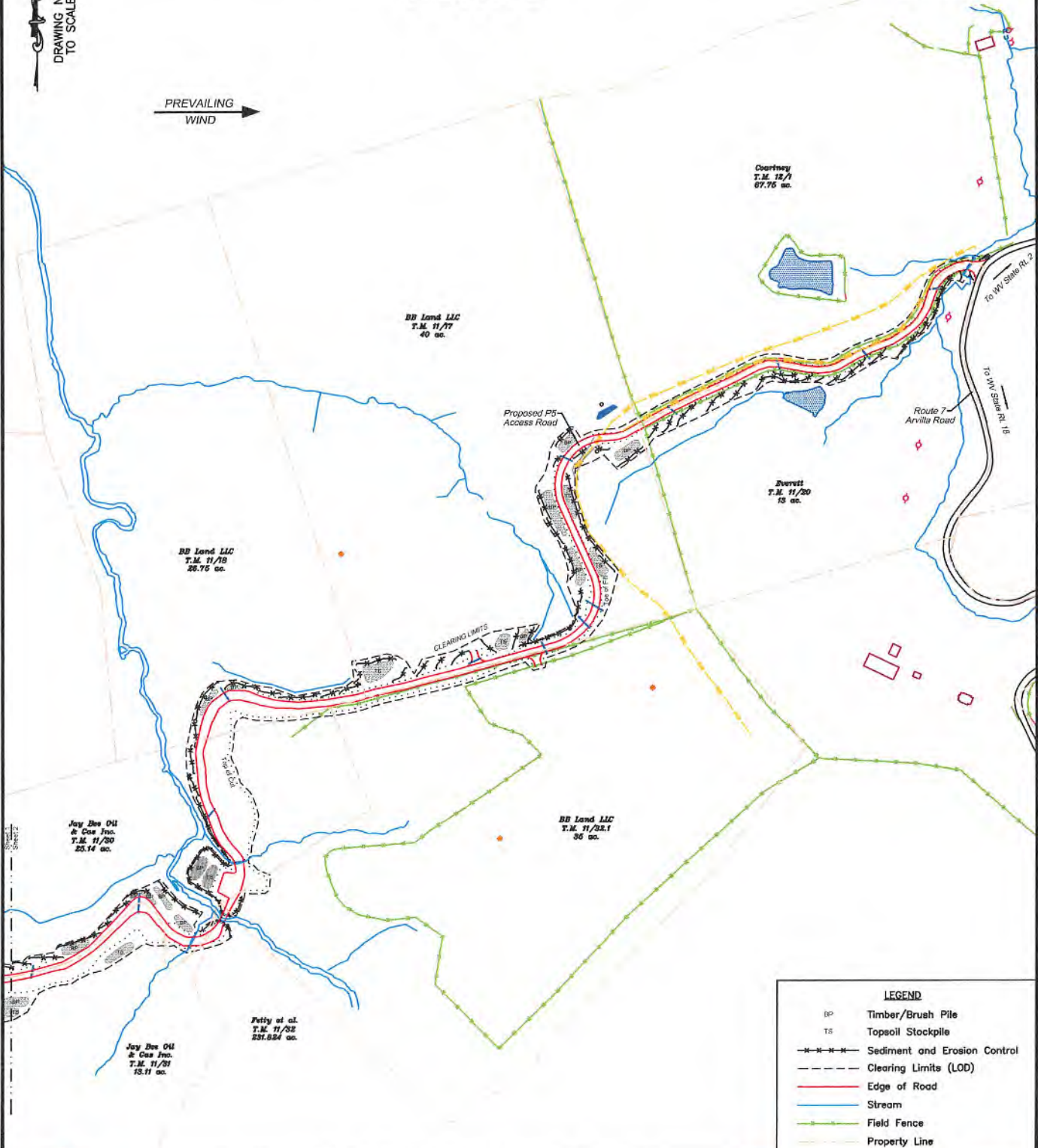
73-02587

# PROPOSED P5 PAD P5N3U

Exhibit 1  
SHEET 2

DRAWING NOT  
TO SCALE

PREVAILING  
WIND



LEGEND	
(BP)	Timber/Brush Pile
TS	Topsoil Stockpile
---x---x---	Sediment and Erosion Control
-----	Clearing Limits (LOD)
---	Edge of Road
---	Stream
---	Field Fence
---	Property Line

**Jackson Surveying Inc.**  
677 W. Main St.  
Clarkburg, Wv 28301  
Phone: 304-623-6661

TOPO SECTION:	
BENS RUN 7.5'	
COUNTY	DISTRICT
PLEASANTS	UNION
DRAWN BY	PROJECT
J.A.H	PSN3U

OPERATOR:	
PREPARED FOR:	
JAYBEE OIL & GAS INC. 3570 SHIELDS HILL RD. CAIRO, WV 26337	
DATE	SCALE
11-16-2018	NONE

**Jay Bee Oil & Gas**  
DRILLING  
into the future



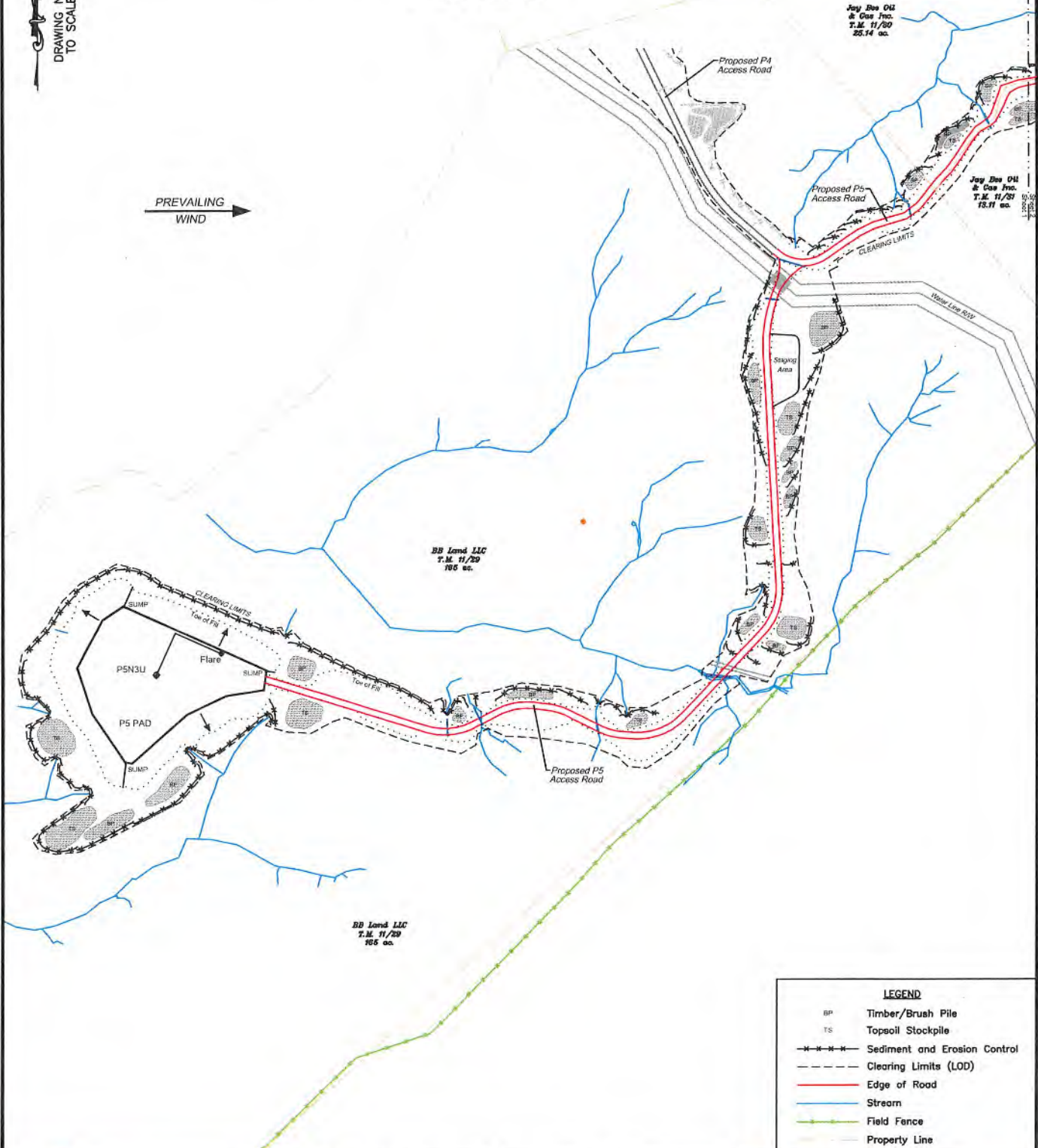
13-02587

# PROPOSED P5 PAD P5N3U

Exhibit 1  
SHEET 1

DRAWING NOT  
TO SCALE

PREVAILING  
WIND



**LEGEND**

- BP Timber/Brush Pile
- TS Topsoil Stockpile
- Sediment and Erosion Control
- - - - - Clearing Limits (LOD)
- Edge of Road
- Stream
- Field Fence
- Property Line



**Jackson Surveying Inc.**  
677 W. Main St.  
Clarksburg, Wv 26801  
Phone: 304-623-6861

TOPO SECTION:	
BENS RUN 7.5"	
COUNTY	DISTRICT
PLEASANTS	UNION
DRAWN BY	PROJECT
J.A.H	P5N3U

OPERATOR:	
PREPARED FOR:	
JAYBEE OIL & GAS INT. 3570 SHIELDS HILL RD. CAIRO, WV 26337	
DATE	SCALE
11-16-2018	NONE



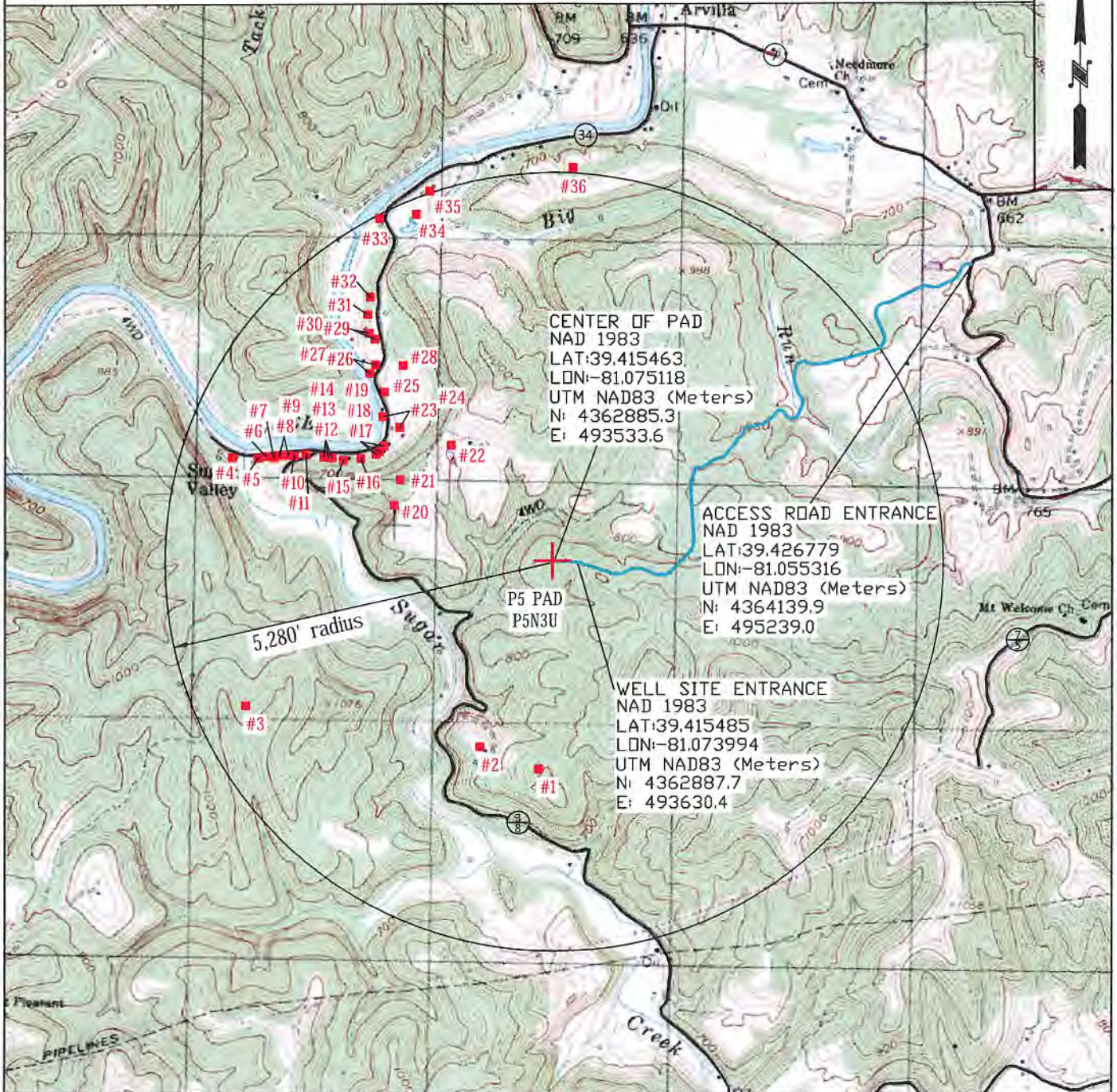
Jay Bee  
Oil & Gas  
**DRILLING**  
into the future




# PROPOSED P5 PAD P5N3U

EXHIBIT 2

There are Thirty-Six (36) residences within 5,280'.



	<b>OPERATOR</b>	<b>P5N3U</b>	<b>TOPO SECTION</b>	<b>LEASE NAME</b>
	JAYBEE OIL & GAS INC. 3570 Shields Hill Rd. Cairo, WV 26337		BENS RUN 7.5'	BB LAND LLC
			<b>SCALE:</b> 1" = 2000'	<b>DATE:</b> DATE: 11-16-2018



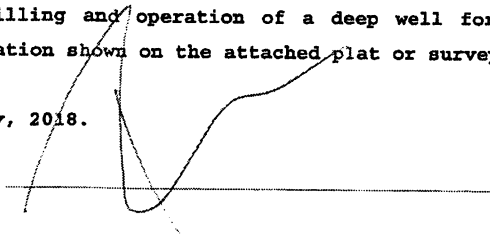
BOOK 324 PAGE 646

Euelyn Davis  
PLEASANTS County 02:40:21 PM  
Instrument No 630486  
Date Recorded 07/25/2018  
Document Type EASEMENT  
Pages Recorded 4  
Book Page 324-646  
Recording Fee \$5.00  
Additional \$6.00

CERTIFICATE OF CONSENT AND EASEMENT

We, the undersigned, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, being all the owners of the surface of that certain lot, tract or parcel of land located in Union District, Pleasants County, State of West Virginia, shown on the attached plat or survey, or hereby consent and grant an easement, pursuant to West Virginia Code, Section 22C-9-7(b)(4) and Operating Rule 4.4 of the Rules and Regulations of the West Virginia Oil and Gas Conservation Commission, to Jay-Bee Oil & Gas, Inc., its successors or assigns, for the drilling and operation of a deep well for the production of oil or gas at the location shown on the attached plat or survey.

Executed this 25th day of July, 2018.

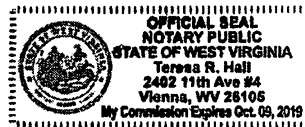


STATE OF WEST VIRGINIA  
COUNTY OF RITCHIE To-Wit

I, Teresa R. Hall, a Notary Public in and for the aforesaid County and State, do hereby certify that Randy Broda, whose name is signed to the writing above, bearing date on the 25th day of July, 2018, has this day acknowledged the same before me, in my said County and State.  
Given under my hand this 25th day of July, 2018.

Teresa R. Hall

My Commission expires on: Oct 9<sup>th</sup> 2019

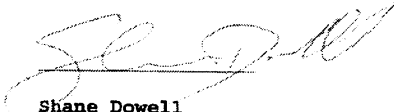


This instrument prepared by:  
WV Oil and Gas Conservation Commission  
601 57<sup>th</sup> Street  
Charleston, WV 25304

BOOK 324 PAGE 647

Statement of Consideration for Certificate of Consent and Easement:

The consideration of this consent and easement is zero dollars.



Shane Dowell

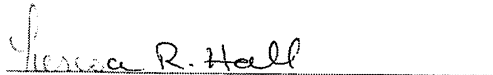
Jay-Bee Oil & Gas, Inc.

STATE OF WEST VIRGINIA

COUNTY OF Ritchie To-Wit

I, Teresa R. Hall, a Notary Public in and for the aforesaid County and State, do hereby certify that Shane Dowell, whose name is signed to the writing above, bearing date on the 25th day of July, 2018, has this day acknowledged the same before me, in my said County and State.

Given under my hand this 25th day of July, 2018.



My Commission expires on: Oct 03 2019



Consideration Statement prepared by:  
Jay-Bee Oil & Gas, Inc.  
3570 Shields Hill Rd.  
Cairo, WV 26337

WW-9  
(4/16)

API Number 47 - 73 - 02587  
Operator's Well No. P5N3U

**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 )

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Office of Oil and Gas

JUL 30 2018

WV Department of  
Environmental Protection

*DMH  
7-24-18  
JCB  
7/26/2018*

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

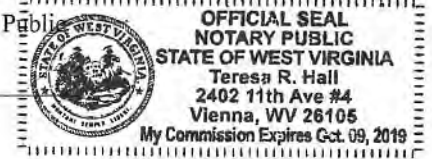
Company Official Title Office Manager

Subscribed and sworn before me this 26<sup>th</sup> day of July, 2018

Teresa R. Hall

Notary Public

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



Jay-Bee Oil & Gas, Inc.

Proposed Revegetation Treatment: Acres Disturbed 21.6 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: [Signature]

Title: Oil & Gas Inspector Date: 7-26-18

Field Reviewed? ( ) Yes ( ) No

RECEIVED Office of Oil and Gas JUL 30 2018 WV Department of Environmental Protection



# P5N3U

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# WELL SITE SAFETY PLAN

JAY-BEE OIL & GAS, INC

*DMH  
7-26-18*

*JEB  
7/26/2018*

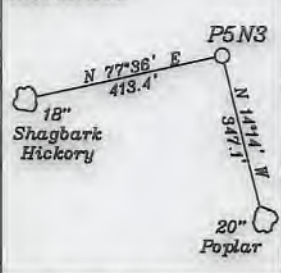
RECEIVED  
Office of Oil and Gas

JUL 30 2018

WV Department of  
Environmental Protection



References:



V- Heartwood Forestland Fund IV Limited Partnership T.M. 15/3 16.75 Ac. **APC05110**

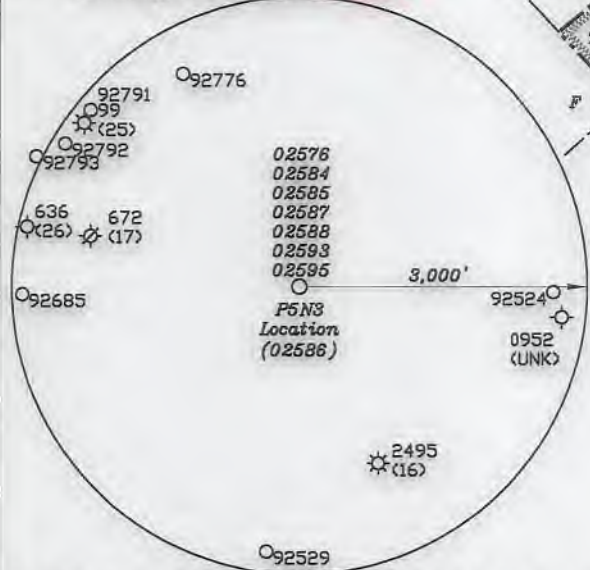
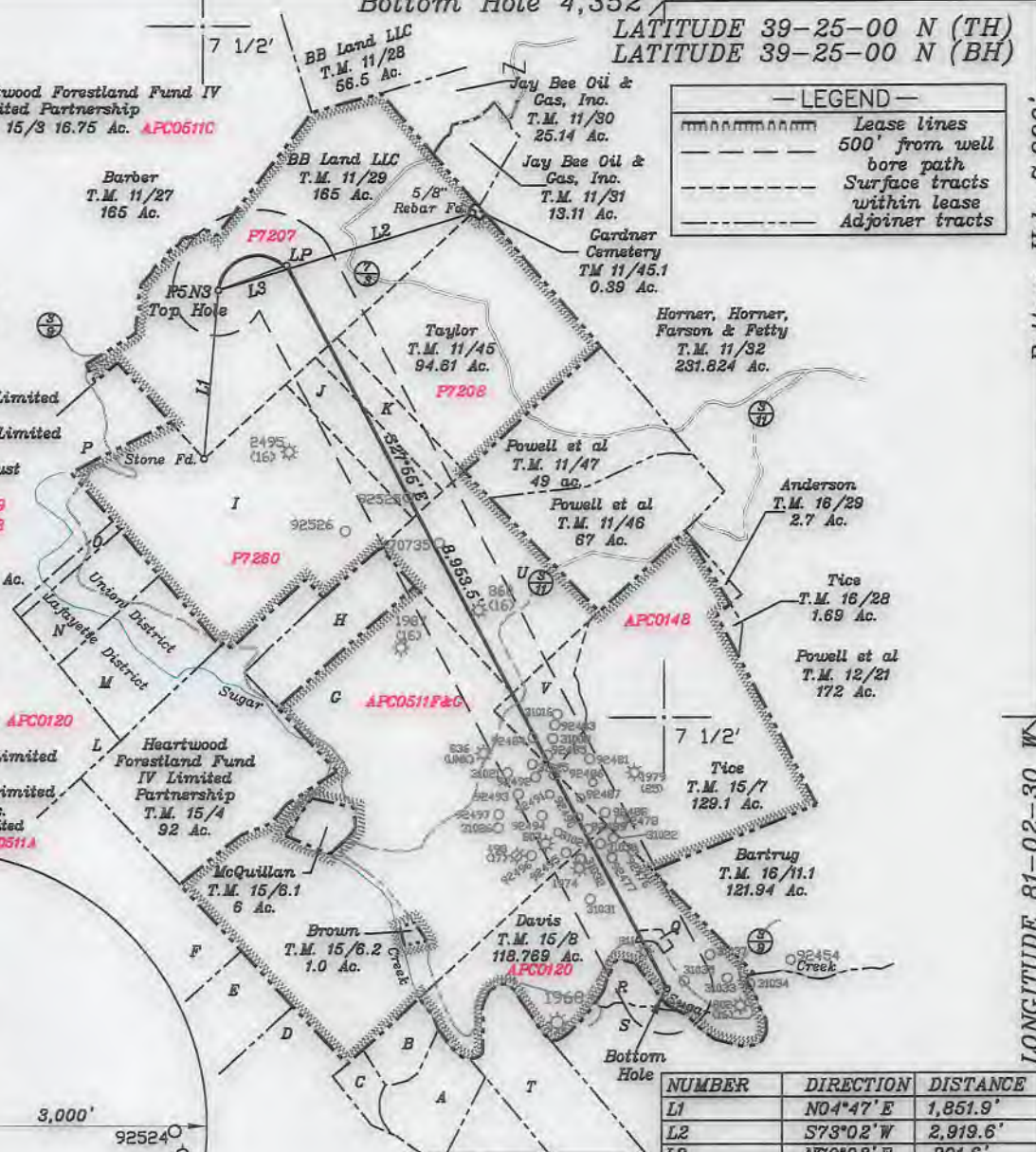
Bottom Hole 4,352'

LATITUDE 39-25-00 N (TH)  
LATITUDE 39-25-00 N (BH)

— LEGEND —

	Lease lines
	500' from well bore path
	Surface tracts within lease
	Adjoiner tracts

- A- Napier T.M. 4/28.18 20.524 Ac.
- B- Napier T.M. 4/28.17 17.164 Ac.
- C- Winland T.M. 4/28.18 8.076 Ac.
- D- Hooper T.M. 4/25 23.066 Ac.
- E- Cuman T.M. 4/24 51.0 Ac.
- F- Fleming T.M. 4/15 87.5 Ac.
- G- Heartwood Forestland Fund IV Limited Partnership T.M. 15/3 266 Ac.
- H- Heartwood Forestland Fund IV Limited Partnership T.M. 15/5 50 Ac.
- I- Melanie Jo Manuse Revocable Trust T.M. 11/41 123.27 Ac.
- J- Taylor T.M. 11/44 25.8 Ac. **P7259**
- K- Taylor T.M. 11/43 18.6 Ac. **P7258**
- L- Hall T.M. 4/7 39.5 Ac.
- M- Heartwood Forestland Fund IV Limited Partnership T.M. 15/2 27 Ac.
- N- Golden Eagles Resources LLC & Hummer Properties LLC T.M. 15/12 28.944 Ac.
- O- Hall T.M. 11/49 6.36 Ac.
- P- Golden Eagles Resources LLC & Hummer Properties LLC T.M. 11/40 62.083 Ac.
- Q- Fourqurean T.M. 15/8.1 1.231 Ac. **APC0120**
- R- Hansen T.M. 4/29 3.5 Ac.
- S- Heartwood Forestland Fund IV Limited Partnership T.M. 4/51 114 Ac.
- T- Heartwood Forestland Fund IV Limited Partnership T.M. 15/11 50.00 Ac.
- U- Heartwood Forestland Fund IV Limited Partnership T.M. 15/1 52.5 Ac. **APC0511A**



NUMBER	DIRECTION	DISTANCE
L1	N04°47' E	1,851.9'
L2	S73°02' W	2,919.6'
L3	N70°02' E	801.6'

<b>Top Hole</b>	Geo NAD 83- 39.415462 N, 81.075038 W
	UTM NAD 83(Meters)-4362885.22 N, 493540.48 E
	UTM NAD 83(Feet)-14313899.25 N, 1619224.05 E
<b>Landing Point</b>	Geo NAD 83- 39.416250 N, 81.072389 W
	UTM NAD 83(Meters)-4362972.47 N, 493768.61 E
	UTM NAD 83(Feet)-14314185.52 N, 1619972.51 E
<b>Bottom Hole</b>	Geo NAD 83- 39.394733 N, 81.057068 W
	UTM NAD 83(Meters)-4360583.53 N, 495085.93 E
	UTM NAD 83(Feet)-14306347.80 N, 1624294.43 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 June 29, 2018  
 Revised July 01, 2019  
 OPERATOR'S WELL NO. P5N3  
 API WELL NO. 47-073-02586 H6A  
 WELL TYPE: OIL X GAS X LIQUID INJECTION X WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION X STORAGE X DEEP X SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 868.1' WATER SHED Sugar Creek of Outlet Middle Island Creek (HUC-10)  
 DISTRICT Union COUNTY Pleasants  
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER BB Land, LLC. ACREAGE 165.0 Ac.  
 OIL & GAS ROYALTY OWNER Roger Wells, Howard Wells, J.R. Wells, LEASE ACREAGE 165.0 Ac.  
Clint Jones, Beverly Walker, Sara Wells & Thomas Dunsford, Yvonne Shelley LEASE NO. P7207

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) \_\_\_\_\_

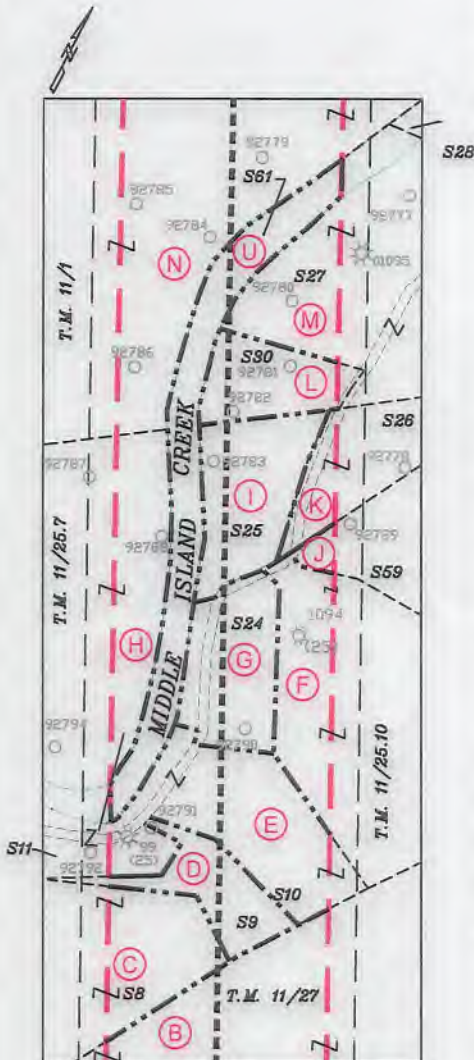
PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 5,900'; TMD = 16,155'  
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
 ADDRESS 60 Walnut Avenue, Suite 190, Clark NJ 07066 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337



JACKSON SURVEYING  
INC.

P.O. Box 1460  
877 W. Main St.  
Clarksburg, WV 26302  
304-623-5851

**P5N3U  
LEASE AREA  
223.843± AC.**



Detail A  
N.T.S.



P.S.  
708

*David L. Jackson*

TRACT	SURFACE OWNER	TM PARCEL Union Dist.	ACRES
S1	MATTHEW A. & DAWNA M. TAYLOR	11 / 43	18.6
S2	MATTHEW A. & DAWNA M. TAYLOR	11 / 44	25.8
S3	MELANIE JO MANUSE REVOCABLE TRUST	11 / 41	123.27
S4	GOLDEN EAGLES RESOURCES LLC & HUMMER PROPERTIES LLC	11 / 40	62.063
S5	MAX E. & LINDA L. HALL & CLINTON HALL JR.	11 / 34	38.33
S6	GOLDEN EAGLE RESOURCES LLC	11 / 35	30.893
S7	EDWARD W. JEFFREY L. WILLIAMSON	11 / 33	14.25
S8	KENNETH G. & DORIS A. HOLMES	11 / 25.12	21.267
S9	JOSHUA S. & ABIGAIL K. HOLMES	11 / 25.14	2.268
S10	RONALD S. & VICKIE L. HOLMES	11 / 25.11	0.75
S11	MATTHEW S. & STEFANIE A. HOLMES	11 / 25.6	0.581
S12	JON. R. & SHARON Y. BAILEY	11 / 25.13	0.624
S13	DEANE SCHULTHEIS	11 / 25.5	0.75
S14	KENNETH G. & DORIS A. HOLMES	11 / 25.3	5.621
S15	BENNY D. & C. DARLENE WHARTON	11 / 25.4	2.25
		11 / 25.8	TOTAL
S16	THETA D. & NEAL RODNEY MYERS	11 / 24	0.21
S17	JAMES KEVIN STOUT, ET AL	11 / 23.1	0.524
S18	JAMES KEVIN STOUT, ET AL	11 / 23.2	0.084
S19	STEPHEN A. & LINDA K. POYNTER	11 / 23	0.93
S20	SUGAR VALLEY SCHOOL	11 / 25.1	0.57
S21	LINDA L. SHIMER	11 / 22	3.63
S22	DEPARTMENT OF NATURAL RESOURCES	11 / 22.1	1.37
S23	MICHAEL BLANIE BEAGLE	11 / 21	1.0
S24	EMMA JULIA FELL MIXER	11 / 25	5.033
S25	GARY BURIAN	11 / 2	6.1
S26	EMMA JULIA FELL MIXER	11 / 25.2	4.687
S27	KENNETH G. HOLMES, ET AL	11 / 3	18.45
S28	ROGER Q. & KIMBERLY A. HOLMES, ET AL	11 / 3.1	1.75
S29	ROGER Q. & KIMBERLY A. HOLMES, ET AL	11 / 4	1.0
S30	EDWARD B. & MELISSA K. HOLMES	11 / 3.2	3.447
S31	JOHN TICE	10 / 51.1	1.0
S32	JIMMY M. THAXTON II	11 / 51	5.564
S33	JOHN P. & BRENDA J. RIGGS	10 / 49	4.0
S34	JESSE M. & JUDITH K. BARNHART	10 / 24	25
S35	JESSE M. & JUDITH K. BARNHART	10 / 26	1.0
S36	LARRY O. & BRENDA L. BARNHART	10 / 25	10.0
S37	LARRY O. & BRENDA L. BARNHART, ET AL	10 / 7.1	1.0
S38	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	6 / 56.1	12.5
S39	CARROLL L. ASH	5 / 36	15.0
S40	MICHEAL W. METZ	5 / 37	20.0
S41	NATHAN WADE BENNETT	6 / 109	5.011
S42	CEMETERY	-	-
S43	DAVID ROGER & PATTY SUE MCCARTNEY	6 / 30.1	6.0
S44	DAVID ROGER & PATTY SUE MCCARTNEY	6 / 31	0.75
S45	RICHARD L. LEWIS JR. & BERYLANN LEWIS	6 / 32	6.08
S46	TIMOTHY R. & PAMELA J. NICHOLS	5 / 38	11.21
S47	HEARTLAND FORESTLAND FUND IV LIMITED PARTNERSHIP	6 / 100	84
S48	JAY BEE OIL & GAS, INC.	11 / 31	13.11
S49	LARRY WILLIAM HORNER, ET AL	11 / 32	231.82
S50	GARDNER CEMETERY	11 / 45.1	0.39
S51	LOUIE A. STANLEY	6 / 37	60.0
S52	CHARLES R. & BETH ANN MANKINS	6 / 38	23.5
S53	CHARLES R. & BETH ANN MANKINS	6 / 39	25.5
S54	CHARLES R. & BETH ANN MANKINS	6 / 30	45.0
S55	MARK J. & MICHELLE LYNN WEAVER	5 / 56	117.412
S56	JOSEPH & CYNTHIA AYERS	5 / 61	35.981
S57	RICHARD C. & DIANE BEANE	10 / 7	20.0
S58	ROBERT WILLIAM BUTLER, ET AL	6 / 103	38.93
S59	ROGER Q. & KIMBERLY A. HOLMES	11 / 25.9	20.53
S60	ROGER Q. & KIMBERLY A. HOLMES	11 / 5	111.0
S61	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	MIDDLE ISLAND CREEK	6.77

47-073-0 2587H6A

**Notes:**

- All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
- Ties to wells and corners are based on State Plans Grid North-WV North Zone NAD 83.
- No water wells were found within 250' of the well location. No dwellings or buildings were found within 625' from the center of the pad. No perennial stream is located within 100' of the LOD. No producing trout stream is located within 300' of the LOD.
- All deep wells within 3000' of well bore path are shown on this plat.



Jay Bee  
Oil & Gas

DRILLING  
into the future

OPERATOR'S WELL #: P5N3U -02587	P5N3U Well Plat PAGE 2 OF 3 DATE: 11/28/2018
DISTRICT: UNION	
COUNTY: PLEASANTS	
STATE: WV	



JACKSON SURVEYING

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

P5N3U  
LEASE AREA  
223.843± AC.

Tracts	Tax Map/Parcel Union District	Lease #	Lessor, Grantor, etc
A	11/29	P7207	Jay Bee Royalty
B	11/27	P7206	Hazel Bunner
B	11/27	P7206	Antero Resources Corp
B	11/27	P7206	Jay Bee Royalty
C	11/25.12	P7267L	Virginia Ruth Fell Sole
C	11/25.12	P7267L	Emma Julia Fell Mixer
C	11/25.12	P7267L	Kenneth G. & Doris A. Holmes
D, E	11/25.11; 25.14	P7267K	Virginia Ruth Fell Sole
D, E	11/25.11; 25.14	P7267K	Emma Julia Fell Mixer
D, E	11/25.11; 25.14	P7267K	Ronald and Vickie Holmes
F	11/25.10	P7267J	Marvin and Sandra K. Lamm
F	11/25.10	P7267J	Emma Julia Fell Mixer
F	11/25.10	P7267J	Virginia Ruth Fell Sole
G	11/25	P7267A	Ronald and Vickie Holmes
G	11/25	P7267A	Virginia Ruth Fell Sole
G	11/25	P7267A	Emma Julia Fell Mixer
G	11/25	P7267A	Kenneth G. Holmes
G	11/25	P7267A	Roger and Kimberly. Holmes
G	11/25	P7267A	Ronald and Vickie Holmes
G	11/25	P7267A	Marvin and Sandra K. Lamm
H	11/25.7	P7267G	Virginia Ruth Fell Sole
H	11/25.7	P7267G	Roger and Kimberly. Holmes
H	11/25.7	P7267G	Ronald and Vickie Holmes
H	11/25.7	P7267G	Marvin and Sandra K. Lamm
H	11/25.7	P7267G	Emma Julia Fell Mixer
H	11/25.7	P7267G	Kenneth G. & Doris A. Holmes
I	11/2	P7267	Gary Burian
I	11/2	P7267	Virginia Ruth Fell Sole
I	11/2	P7267	Kenneth G. Holmes
I	11/2	P7267	Roger and Kimberly. Holmes
I	11/2	P7267	Ronald and Vickie Holmes
I	11/2	P7267	Marvin and Sandra K. Lamm
I	11/2	P7267	Emma Julia Fell Mixer
J	11/25.9	P7267I	Roger and Kimberly. Holmes
J	11/25.9	P7267I	Emma Julia Fell Mixer
J	11/25.9	P7267I	Virginia Ruth Fell Sole
K	11/25.2	P7267B	Marvin and Sandra K. Lamm
K	11/25.2	P7267B	Emma Julia Fell Mixer
K	11/25.2	P7267B	Roger and Kimberly. Holmes
K	11/25.2	P7267B	Kenneth G. Holmes
K	11/25.2	P7267B	Ronald and Vickie Holmes
L	11/3.2	P7267Q	Emma Julia Fell Mixer
L	11/3.2	P7267Q	Edward Holmes
L	11/3.2	P7267Q	Melissa Holmes
M	11/3	P7267O	Kenneth G. Holmes
M	11/3	P7267O	Roger and Kimberly. Holmes
M	11/3	P7267O	Ronald and Vickie Holmes
M	11/3	P7267O	Marvin and Sandra K. Lamm
M	11/3	P7267O	Emma Julia Fell Mixer
N	11/1	P7041	Linda Shimer
N	11/1	P7041	John Grim
O	6/66	P7039	Ridgetop Capital IV LP
O	6/66	P7039	BB Land LLC
P	6/103	P7059	Ridgetop Capital IV LP
P	6/103	P7059	BB Land LLC
Q	6/64	P7122	Erma K. Pethel
Q	6/64	P7122	John Grim
Q	6/64	P7122	Linda L. Shimer
Q	6/64	P7122	Blackrock Enterprises
R	6/37	P7121	Erma K. Pethel
R	6/37	P7121	John Grim
R	6/37	P7121	Linda L. Shimer
R	6/37	P7121	Blackrock Enterprises
S	10/18A	P7098	John Grim
S	10/18A	P7098	Erma Pethel
S	10/18A	P7098	Linda L. Shimer
S	10/18A	P7098	Blackrock Enterprises
T	6/30	P7070	Ridgetop Capital IV LP
T	6/30	P7070	BB Land LLC
U	Middle Island Creek	MIC 5	West Virginia Division of Natural Resources



P.S. 708 *David L. Jackson*

Notes: The information on this page was furnished by Jay Bee Oil & Gas.



Jay Bee  
Oil & Gas

DRILLING  
into the future

OPERATOR'S  
WELL #: P5N3U -02587  
DISTRICT: UNION  
COUNTY: PLEASANTS  
STATE: WV

P5N3U Well Plat  
PAGE 3 OF 3  
DATE: 11/28/2018



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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See attached exhibit to WW-6A1

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

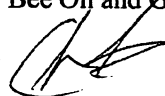
The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- 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



It's Office Manager

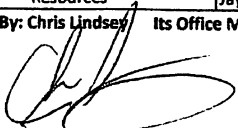
PSN3U Exhibit to 6A1

Tracts	Tax Map/Parcel Union District	Lease #	Lessor, Grantor, etc	Lessee, Grantee, etc	Royalty	Deed Book-Page
A	11/29	P7207	Jay Bee Royalty	BB, Land, LLC	≥12.5%	312-199
B	11/27	P7206	Hazel Bunner	Antero Resources Corp	≥12.5%	301-242
B	11/27	P7206	Antero Resources Corp	BB, Land, LLC	assignment	318-620
B	11/27	P7206	Jay Bee Royalty	BB, Land, LLC	affidavit	
C	11/25.12	P7267L	Virginia Ruth Fell Sole	BB, Land, LLC	≥12.5%	317-13
C	11/25.12	P7267L	Emma Julia Fell Mixer	BB, Land, LLC	≥12.5%	317-25
C	11/25.12	P7267L	Kenneth G. & Doris A. Holmes	BB, Land, LLC	≥12.5%	317-21
D, E	11/25.11; 25.14	P7267K	Virginia Ruth Fell Sole	BB, Land, LLC	≥12.5%	317-13
D, E	11/25.11; 25.14	P7267K	Emma Julia Fell Mixer	BB, Land, LLC	≥12.5%	317-25
D, E	11/25.11; 25.14	P7267K	Ronald and Vickie Holmes	BB, Land, LLC	≥12.5%	317-17
G	11/25	P7267A	Ronald and Vickie Holmes	BB, Land, LLC	≥12.5%	317-17
G	11/25	P7267A	Virginia Ruth Fell Sole	BB, Land, LLC	≥12.5%	317-13
G	11/25	P7267A	Emma Julia Fell Mixer	BB, Land, LLC	≥12.5%	317-25
G	11/25	P7267A	Kenneth G. Holmes	BB, Land, LLC	≥12.5%	317-21
G	11/25	P7267A	Roger and Kimberly Holmes	BB, Land, LLC	≥12.5%	316-644
G	11/25	P7267A	Ronald and Vickie Holmes	BB, Land, LLC	≥12.5%	317-17
G	11/25	P7267A	Marvin and Sandra K. Lamm	BB, Land, LLC	≥12.5%	317-30
I	11/2	P7267	Gary Burian	BB, Land, LLC	≥12.5%	318-100
I	11/2	P7267	Virginia Ruth Fell Sole	BB, Land, LLC	≥12.5%	317-13
I	11/2	P7267	Kenneth G. Holmes	BB, Land, LLC	≥12.5%	317-21
I	11/2	P7267	Roger and Kimberly Holmes	BB, Land, LLC	≥12.5%	316-644
I	11/2	P7267	Ronald and Vickie Holmes	BB, Land, LLC	≥12.5%	317-17
I	11/2	P7267	Marvin and Sandra K. Lamm	BB, Land, LLC	≥12.5%	317-30
I	11/2	P7267	Emma Julia Fell Mixer	BB, Land, LLC	≥12.5%	317-25
L	11/3.2	P7267Q	Emma Julia Fell Mixer	BB, Land, LLC	≥12.5%	317-25
L	11/3.2	P7267Q	Edward Holmes	BB Land, LLC	≥12.5%	316-641
L	11/3.2	P7267Q	Melissa Holmes	BB Land, LLC	≥12.5%	316-638
M	11/3	P7267O	Kenneth G. Holmes	BB, Land, LLC	≥12.5%	317-21
M	11/3	P7267O	Roger and Kimberly Holmes	BB, Land, LLC	≥12.5%	316-644
M	11/3	P7267O	Ronald and Vickie Holmes	BB, Land, LLC	≥12.5%	317-17
M	11/3	P7267O	Marvin and Sandra K. Lamm	BB, Land, LLC	≥12.5%	317-30
M	11/3	P7267O	Emma Julia Fell Mixer	BB, Land, LLC	≥12.5%	317-25
N	11/1	P7041	Linda Shimer	BB, Land, LLC	≥12.5%	293/620
N	11/1	P7041	John Grim	BB, Land, LLC	≥12.5%	293/619
O	6/66	P7039	Ridgetop Capital IV LP	BB, Land, LLC	≥12.5%	294-257
O	6/66	P7039	BB Land LLC	Jay Bee Oil and Gas, Inc	affidavit	
Q	6/64	P7122	Erma K. Pethel	Blackrock Enterprises	≥12.5%	304/479
Q	6/64	P7122	John Grim	Blackrock Enterprises	≥12.5%	293/619
Q	6/64	P7122	Linda L. Shimer	Blackrock Enterprises	≥12.5%	293/620
Q	6/64	P7122	Blackrock Enterprises	BB, Land, LLC	assignment	295/2018
R	6/37	P7121	Erma K. Pethel	Blackrock Enterprises	≥12.5%	304/479
R	6/37	P7121	John Grim	BB, Land, LLC	≥12.5%	293/619
R	6/37	P7121	Linda L. Shimer	BB, Land, LLC	≥12.5%	293/620
R	6/37	P7121	Blackrock Enterprises	BB, Land, LLC	assignment	295/2018
U	Middle Island Creek	MIC 5	West Virginia Division of Natural Resources	Jay Bee Production Company	≥12.5%	329/653

Well Operator: Jay Bee Oil and Gas Inc.

By: Chris Lindsey Its Office Manager

Page 2 of 2



**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 P5N3, P5N3U, P5N4, P5S1, P5S3, P5S3U, P5S4 wells (API No(s). to be determined), on Form WW-6A1.

4. We certify that we are authorized by the owner of the working interest in the well to state that it shall tender to the owner of the oil or gas in place not less than one eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead 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.

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 5<sup>th</sup> day of December, 2017 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: April 15, 2022



[Signature]  
NOTARY PUBLIC

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

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 5<sup>th</sup> day of December, 2017 by Randy Broda, Managing Member of BB Land, LLC, on behalf of the company.

My commission expires: April 15, 2022



[Signature]  
NOTARY PUBLIC

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WV Department of  
Environmental Protection

**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 Jay-Bee Royalty, 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 Jay-Bee Royalty, 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 Jay-Bee Royalty, 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 P5N3, P5N3U, P5N4, P5S1, P5S1U, P5S3, P5S4 well API No(s). pending, 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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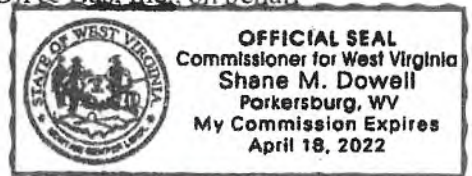
DEP

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

My commission expires: April 18, 2022



[Signature]  
Randy Broda, Managing Member of Jay-Bee Royalty, LLC

[Signature]  
NOTARY PUBLIC

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 2<sup>nd</sup> day of July, 2018 by Randy Broda, Managing Member of Jay-Bee Royalty, LLC, on behalf of the company.

My commission expires: April 18, 2022



[Signature]  
NOTARY PUBLIC

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

July 5, 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: P5N3U Well

Permitting Office:

As you know we have applied for a well permit for the P5N3U Well in Pleasants County, West Virginia. This pad is located on what we call the P7207 tract. Sugar Valley Rd (CR34) runs North of this tract and our proposed well leg runs under these roadways.

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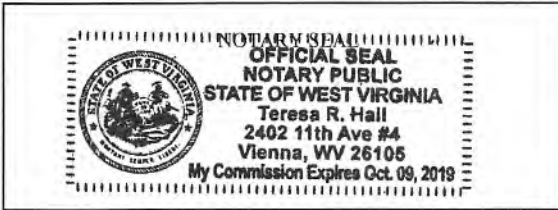




**Certification of Notice is hereby given:**

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:	<u>Jay-Bee Oil &amp; Gas, Inc.</u>	Address:	<u>3570 Shields Hill Rd.</u>
By:	<u>Shane Dowell</u>		<u>Cairo, WV 26337</u>
Its:	<u>Office Manager</u>	Facsimile:	<u>304-628-3119</u>
Telephone:	<u>304-628-3111</u>	Email:	<u>sdowell@jaybeeoil.com</u>



Subscribed and sworn before me this 26<sup>th</sup> day of July 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:** 7-3-2018    **Date Permit Application Filed:** 7-26-2018

**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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WW-6A  
(8-13)

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API NO. 47- 73-02587  
OPERATOR WELL NO. P5N3U  
Well Pad Name: P5

**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/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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

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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.**



### **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.

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WV Department of  
Environmental Protection



WW-6A  
(8-13)

API NO. 47- 73 - 02587  
OPERATOR WELL NO. P5N3U  
Well Pad Name: P5

**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 26<sup>th</sup> day of July, 2018.  
Teresa R. Hall Notary Public  
My Commission Expires Oct 9<sup>th</sup> 2019

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WV Department of  
Environmental Protection

73-02587

P5N3U WW6A Notice Packet Listing

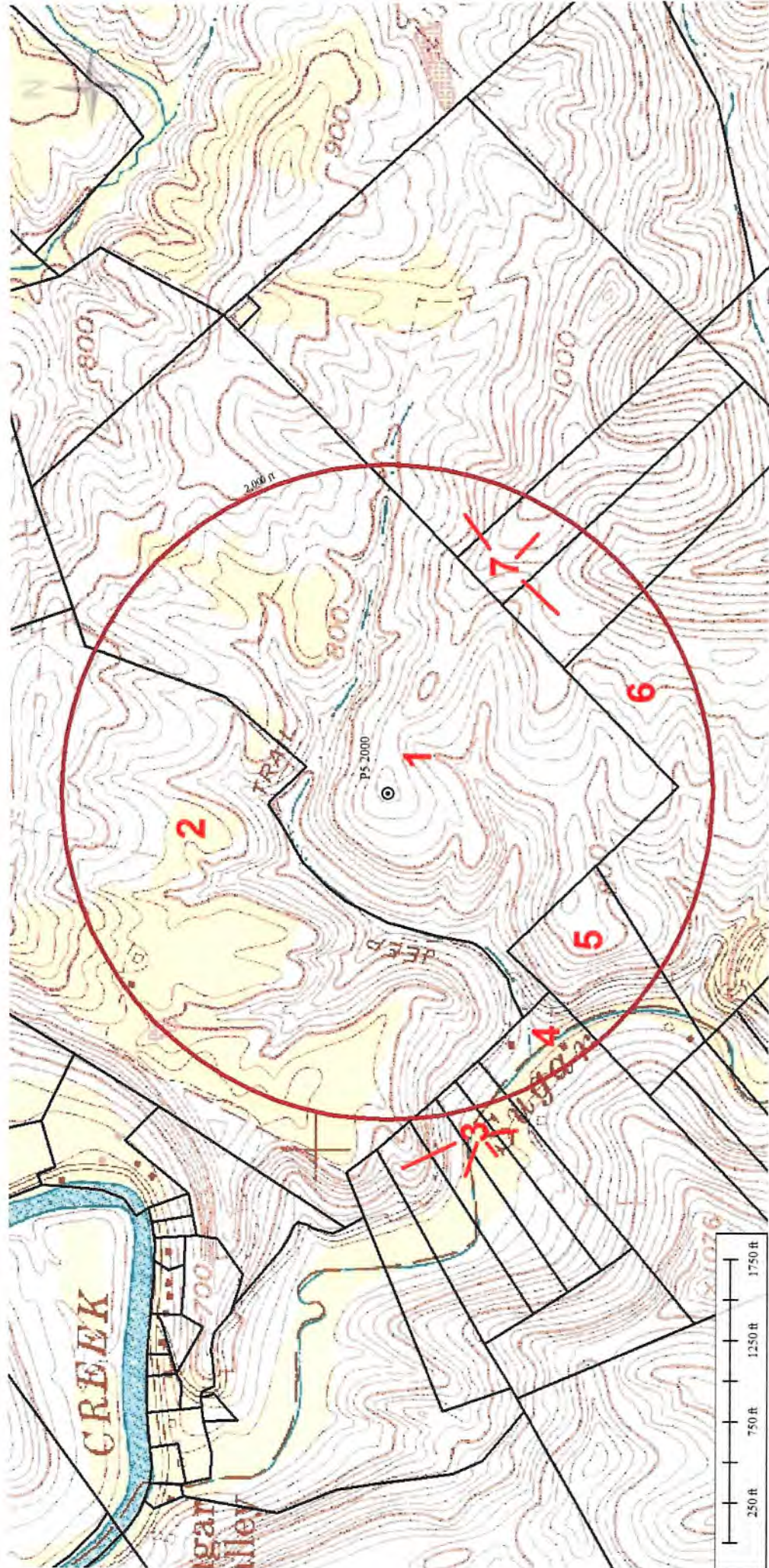
First	Surname	Address	City	State	Zip
Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd	Cairo	WV	26337
Darin	Barber	11378 Dupont Rd.	Washington	WV	26181
Golden Eagle Resources		600 Jefferson St. Suite 200	Houston	TX	77002
Clinton	Hall Jr. et al	1892 Hebron Rd.	St. Marys	WV	26170
Hummer Properties		112 Collins Ave	Pennsboro	WV	26415
Melanie Jo Manuse Revocable Trust		152 Clarendon Rd	Newberry	SC	29108
Matthew & Dawna	Taylor	145 Lamp Hill Rd	St. Marys	WV	26170

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P5 Water Well Reference

Reference	Map	Parcel	First	Surname	Address	City	State	Zip
1	11	29	Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd	Cairo	WV	26337
2	11	27	Darin	Barber	11378 Dupont Rd.	Washington	WV	26181
3	11	35	Golden Eagle Resources		600 Jefferson St. Suite 200	Houston	TX	77002
4	11	34	Clinton	Hall Jr. et al	1892 Hebron Rd.	St. Marys	WV	26170
5	11	40	Hummer Properties		112 Collins Ave	Pennsboro	WV	26415
6	11	41	Melanie Jo Manuse Revocable Trust		152 Clarendon Rd	Newberry	SC	29108
7	11	43,44,45	Matthew & Dawna	Taylor	145 Lamp Hill Rd	St. Marys	WV	26170

23-02587

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Environmental Protection





73-02587

WW-6A3  
(1/12)

Operator Well No. P5S1, P5S1U, P5N4, P5N4U,  
P5S4, P5S4U, P5N3, P5N3U  
P5S3, P5S3U

**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:** 10-17-2017      **Date of Planned Entry:** 10-24-2017

**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: BB Land, LLC  
Address: PO BOX 380  
Bridgeport, WV 26330

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

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

COAL OWNER OR LESSEE

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

MINERAL OWNER(s)

Name: BB Land, LLC  
Address: PO Box 380  
Bridgeport, WV 26330

\*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: Bens Run 7.5'

Approx. Latitude & Longitude: 39.415463 X -81.075180  
Public Road Access: Arvilla Rd (CR7)  
Watershed: Middle Island Creek  
Generally used farm name: Jay-Bee Oil & Gas, Inc.

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).

**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).



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)\_\_\_ 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) WW6A1\_\_\_ WMP\_\_\_ WW6RW/AW\_\_\_

--all with respect to operator's Well No. P5S1, P5S1U, P5N4, P5N4U, P5S4, P5S4U, P5N3, P5N3U, P5S3, P5S3U 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 17th day of October, 2017 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[ ] Handing it to him\_\_\_/ her\_\_\_/ or, because he\_\_\_/ she\_\_\_/ refused to take it when offered it, by leaving it in his\_\_\_/ her\_\_\_/ presence.

[ ] Handing it to a member of his or her family above the age of 16 years named \_\_\_\_\_ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:


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

For a limited partnership:

[ ] Handing it to the general partner, named \_\_\_\_\_, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

[X] Handing it to the corporation's employee\_\_\_/ officer<sup>X</sup>\_\_\_/ 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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WW-6A5  
(1/12)

Operator Well No. P5N3U

73-02587

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:** 07/13/2018 **Date Permit Application Filed:** 07/13/2018

**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: BB Land, LLC  
Address: 75 Crosswinds Dr  
Bridgeport, WV 26330

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

**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:	493,525.28
County:	Pleasants	Northing:	4,362,891.41
District:	Union	Public Road Access:	Arvilla Rd.
Quadrangle:	Bens Run 7.5'	Generally used farm name:	BB Land, LLC
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@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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**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION**

**Division of Highways**

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

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

**July 19, 2018**

**Jill M. Newman**  
**Deputy Commissioner**

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

Subject: DOH Permit for the P5 Pad, Pleasants County  
P5N3U 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,

A handwritten signature in cursive script that reads "Gary K. Clayton".

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



JUL 30 2018

K09292445  
SW-2016-0004

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

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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Environmental Protection

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.

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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Environmental Protection

**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.

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

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)

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*C.B. Macdo*  
APPROVED AS TO FORM THIS  
*29th* DAY *August, 2016*  
ATTORNEY LEGAL DIVISION  
WEST VIRGINIA DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
*1608125*





**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)

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Environmental Protection

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

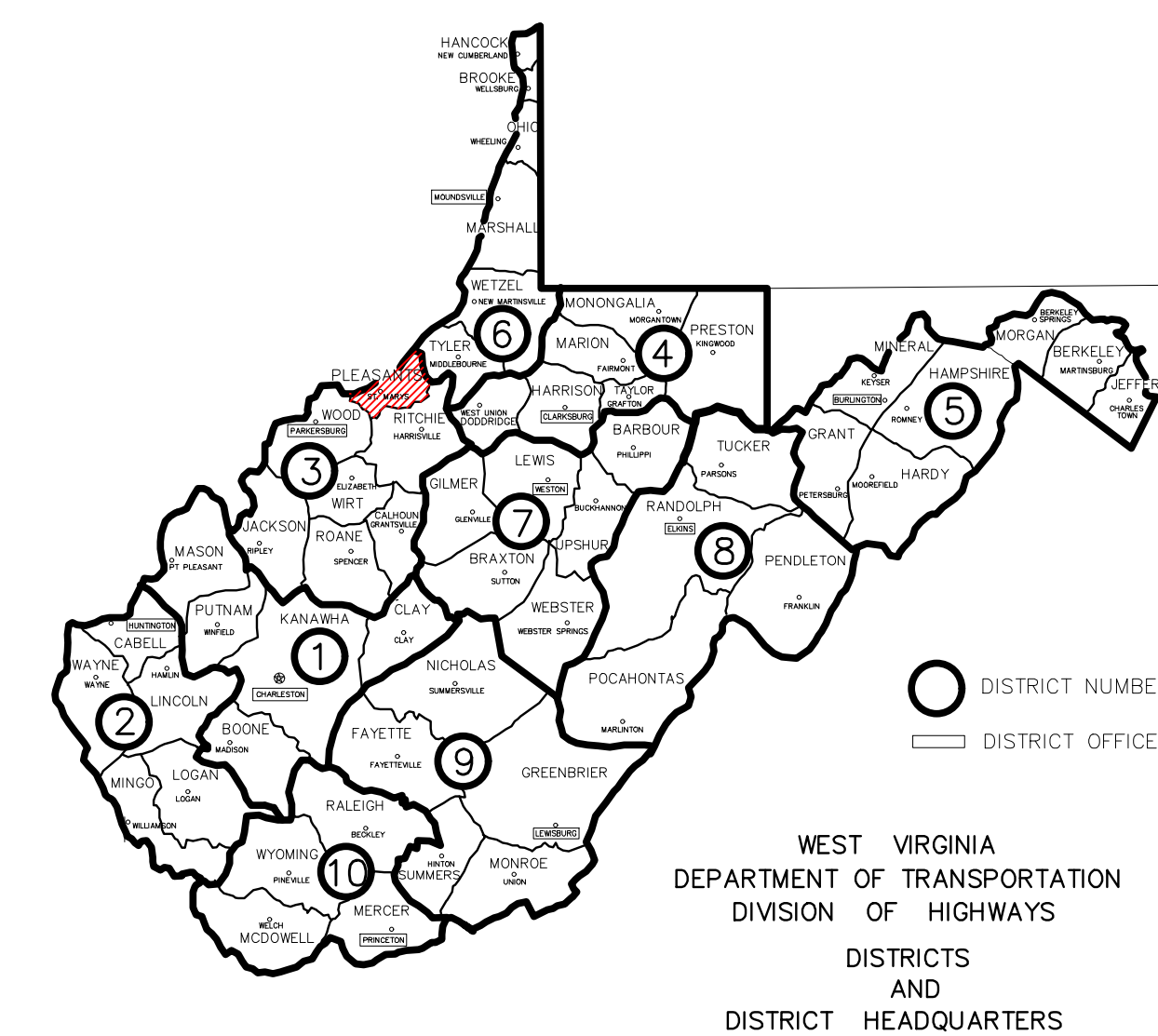


# P5 Well Pad Site Plan Modification

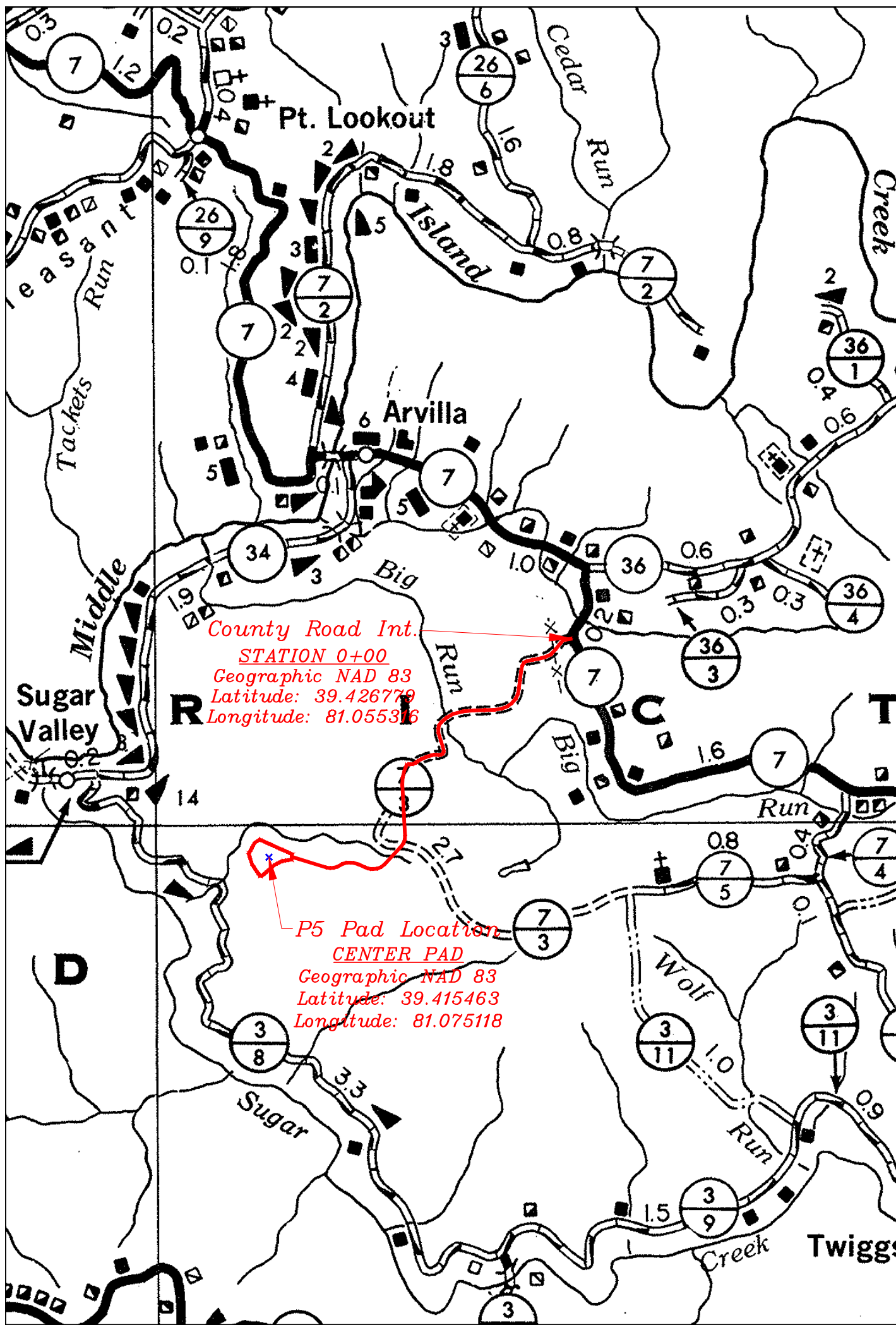
Union District, Pleasants County, WV  
Prepared for JAY BEE OIL & GAS

Date: April 19, 2018

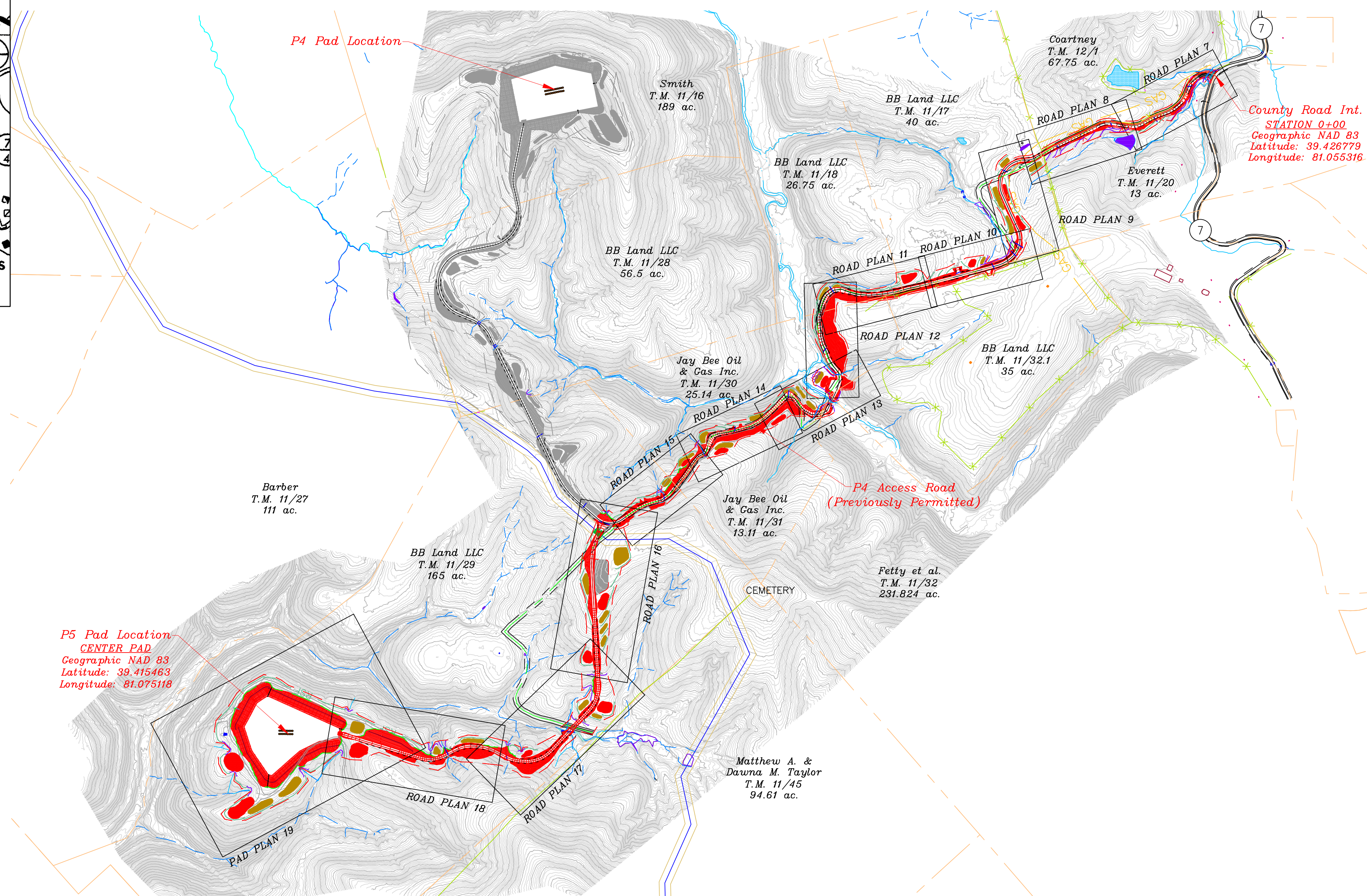
**APPROVED**  
**WVDEP OOG**  
WJG 8/14/2018



WEST VIRGINIA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICTS  
AND  
DISTRICT HEADQUARTERS



West Virginia  
State Plane  
NAD '83  
North Zone  
RTK GPS



Sheet	Description
1	Cover
2	Details & Notes
3	Details
4	Details
5	Details
6	Details
7	P4 Road Plan & Profile
8	P4 Road Plan & Profile
9	P4 Road Plan & Profile
10	P4 Road Plan & Profile
11	P4 Road Plan & Profile
12	P4 Road Plan & Profile
13	P4 Road Plan & Profile
14	P4 Road Plan & Profile
15	P4 Road Plan & Profile
16	P5 Road Plan & Profile
17	P5 Road Plan & Profile
18	P5 Road Plan & Profile
19	P5 Pad Plan
20	P5 Pad Cut-Fill Diagram
21	P5 Pad Sections
22	P5 Pad Sections
23	P4 Road Cross Sections
24	P4 Road Cross Sections
25	P4 Road Cross Sections
26	P4 Road Cross Sections
27	P5 Road Cross Sections
28	P5 Road Cross Sections
29	Reclamation Plan

Revisions:  
04-19-2018: Revised road grade  
05-07-2018: Revised Ownership  
08-13-2018: Revisions per DEP

**CENTER PAD**  
Geographic NAD 83  
Latitude: 39.415463  
Longitude: 81.075118

**CENTER ROAD INT.**  
(Sta. 0+00)  
Geographic NAD 83  
Latitude: 39.426779  
Longitude: 81.055316



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



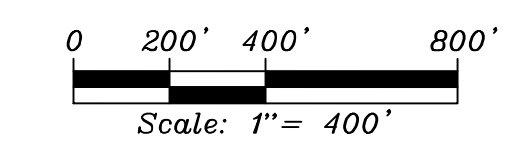
**Design Certification**  
The drawings, construction notes and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas.

The information reflects a gas well pad and access road.

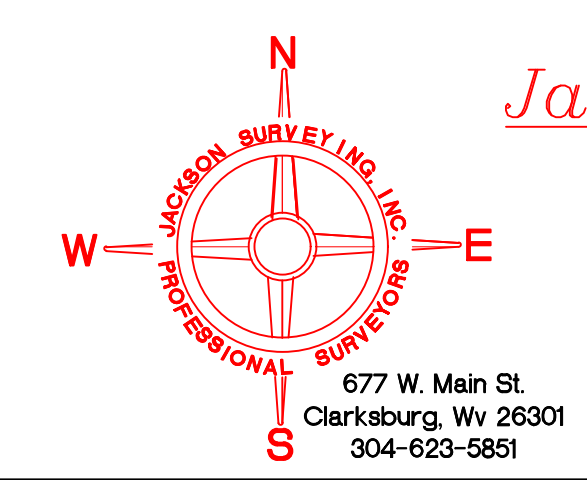
**DENNIS L. FISHER**  
REGISTERED  
No. 8684  
STATE OF  
WEST VIRGINIA  
PROFESSIONAL ENGINEER

*Dennis L. Fisher*  
Dennis L. Fisher, PE

08-13-2018  
Date:



**North Central Engineering, LLC**  
Dennis L. Fisher, RPE  
P.O. Box 628  
Bridgeport, WV 26330  
Cell: 304-677-4129  
E-Mail: Dennis.Fisher@NorthCentralEngineering.com



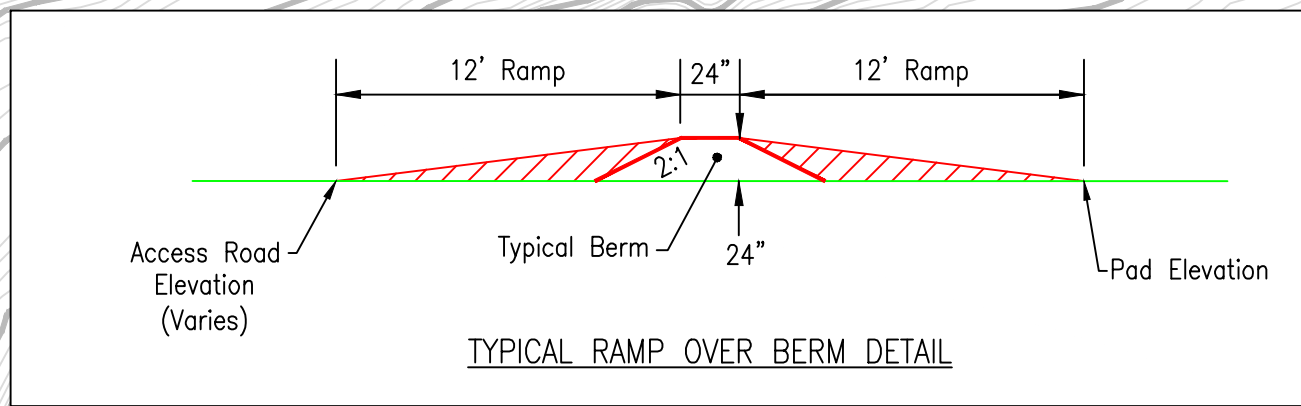
*Jackson Surveying Inc.*

COVER  
SHEET 1  
P5 Well Pad Plan

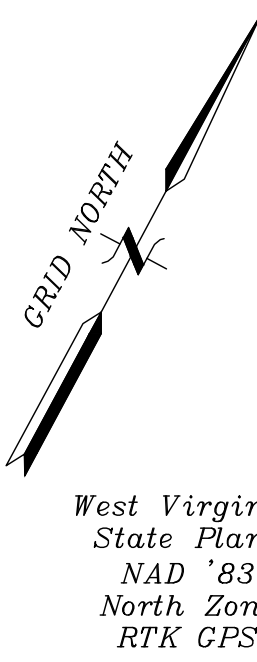
Note: Stream and Wetland delineations are from Allstar Ecology reports dated November 01, 2017 and November 21, 2017. All property lines shown are approximate and have not been field verified. Stream Impact chart on Sheet 2.

**TOTAL LIMIT OF DISTURBANCE**  
(Partial P4 Road LOD & P5 LOD): 35.48± ACRES





**APPROVED**  
**WVDEP OOG**  
W/S 8/14/2018



West Virginia  
State Plane  
NAD '83  
North Zone  
RTK GPS

**CENTER PAD**  
Geographic NAD 83  
Latitude: 39.415463  
Longitude: 81.075118

**CENTER ROAD INT.**  
(Sta. 0+00)  
Geographic NAD 83  
Latitude: 39.426779  
Longitude: 81.055316

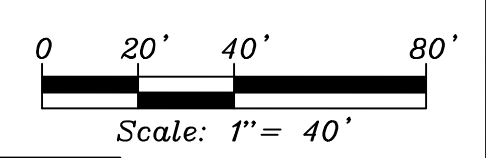
— LEGEND —

Existing Features	—
Proposed Features	—
Right of Way	—
LOD	—
Property Line	—
Creek	—
Drain	—
Existing Fence	—
Proposed Fence	—
Castline	—
Overhead Utilities	—
Toe Bench	—
Reinforced Silt Fence	—
Super Silt Fence	—
Ditch	—
Riprap	—

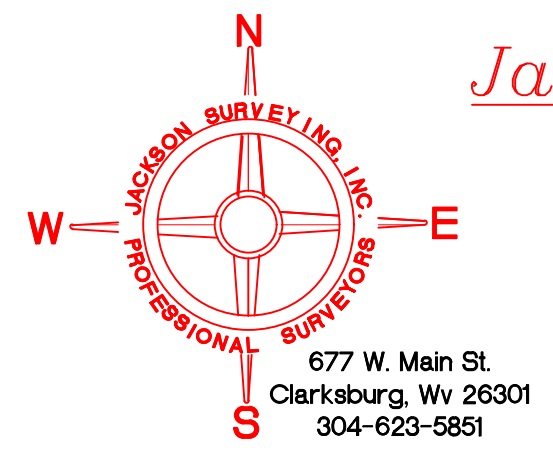
BB Land LLC  
T.M. 11/29  
165 ac.

BB Land LLC  
T.M. 11/29  
165 ac.

**Brush/Topsoil Note:** The brush and topsoil 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.



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Jackson Surveying Inc.

PAD PLAN  
SHEET 19

P5 Well Pad Plan