

05/31/2019



west virginia department of environmental protection

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

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

Wednesday, May 29, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

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

UNION, NJ 070830000


Re: Permit approval for P7N1
47-073-02594-00-00

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: P7N1
Farm Name: JOHN P. RIGGS & BRENDA 
U.S. WELL NUMBER: 47-073-02594-00-00
Horizontal 6A New Drill
Date Issued: 5/29/2019

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

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.

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: P7N1 Well Pad Name: P7

3) Farm Name/Surface Owner: John & Brenda Riggs Public Road Access: Mt. Pleasant Rd

4) Elevation, current ground: 961.1' Elevation, proposed post-construction: 953.0'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

JOB
4/11/2019

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, Target Depth 5919', 41-60' thick, 3500# pressure

8) Proposed Total Vertical Depth: 5,986'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16,468'

11) Proposed Horizontal Leg Length: 8,233.8'

12) Approximate Fresh Water Strata Depths: 393'

13) Method to Determine Fresh Water Depths: 47-073-01966 Fresh Water, 47-073-01252 Salt Water

14) Approximate Saltwater Depths: 1,692'

15) Approximate Coal Seam Depths: No coal within 1 mile

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

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

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05/31/2019

WW-6B
(04/15)API NO. 47- _____
OPERATOR WELL NO. P7N1
Well Pad Name: P7

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	H40	94	30'	30'	CTS 49 Cu. Ft.
Fresh Water	13 3/8	New	H40	48	493'	493'	CTS 397.2 Cu. Ft.
Coal							
Intermediate	8 5/8	New	J55	24	1,800'	1,800'	CTS 546.3 Cu. Ft.
Production	5 1/2	New	P110	17	16,468'	16,468'	3,425.8 CF1000' from surface
Tubing	N/A						
Liners	N/A						

JCB
4/11/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	.375	N/A	50	Class A	1.19
Fresh Water	13 3/8	17 1/2"	.330	1,700#	1,000	Class A	1.26
Coal							
Intermediate	8 5/8	11	.264	2,950#	1,500	Class A	1.45
Production	5 1/2	7 7/8	.304	15,000#	2,500	Type 1 Cement	1.34
Tubing	N/A						
Liners	N/A						

PACKERS

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

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WW-6B
(10/14)

4707302594
API NO. 47- _____ - 05/31/2019
OPERATOR WELL NO. P7N1
Well Pad Name: P7

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

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

JAB
4/11/2019

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.69

22) Area to be disturbed for well pad only, less access road (acres): 8.70

23) Describe centralizer placement for each casing string:

Vertical - Every 500' Bow Centralizer, and 50' from top of ground. Horizontal every 42' Spiral Centralizer, Curve - Every 84' Spiral Centralizer.

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

15" hole for the 11 3/4 fresh water case, Class A Cement, 2% Calcium Chloride, 1/4# flake.
11" hole for the 8 5/8 intermediate base, Class A Cement, 2% Calcium Chloride
7 7/8" hole for the 5 1/2 production case, Type 1 Cement, Fly Ash, Barite, Finetol 300L, R-3 Celio Flake, Sugar, CD-32, FL-62

WV Department of
Environmental Protection

25) Proposed borehole conditioning procedures:

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

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

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

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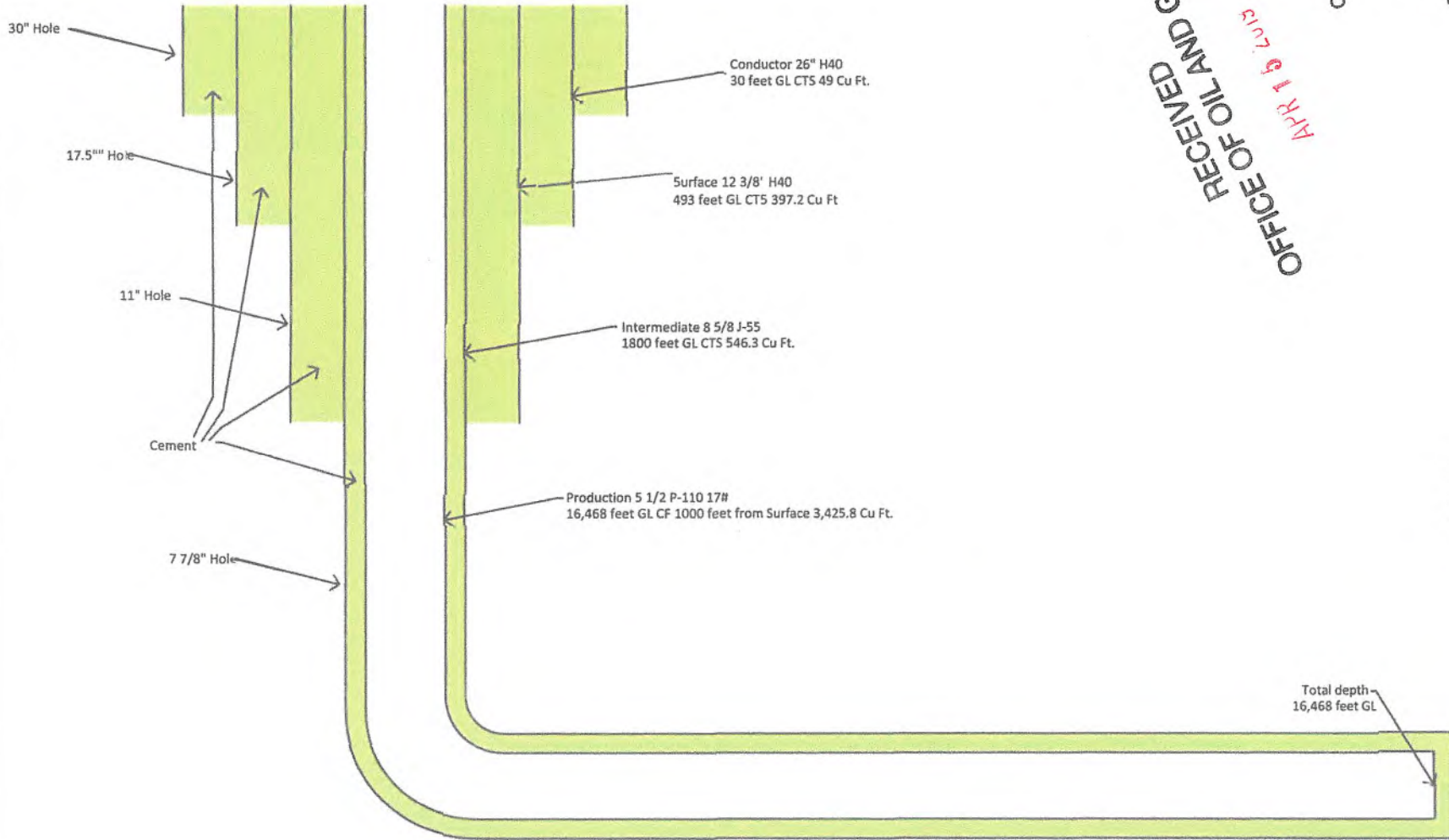
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*Note: Attach additional sheets as needed.

4707302594

Jay-Bee Oil & Gas Inc.
Well Name: P7N1
GL Elevation: 953.0

Date: 4/11/2019
District: Lafayette
County: Pleasants
State: West Virginia



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API	Operator	Status	Vertical TD	Producing Formation	Producing Zones Not Perforated
073-00059	Unknown	Abandoned	1,760'	N/A	N/A
073-01966	Willow Run Corporation P.O. Box 551 St. Mary's, WV 26170-0551	Active	4,753'	Devonian Shale Alexander-Kane	N/A
073-02347	G&S Oil & Gas 402 Parmaco Street Parkersburg, WV 26101	Active	5,048	Devonian Shale	N/A
073-00200	Unknown	Plugged	1,860	N/A	N/A
073-02153	W.F. & R.L. Zickefoose 50 Purdy Rd. Burgettstown, PA 15201	Active	1,930	Injun-Oil	N/A
073-01467	G&S Drilling 402 Parmaco Street Parkersburg, WV 26101-5762	Active	5,525	Devonian Shale	N/A
073-02006	Patchwork Oil & Gas, LLC 8165 Elizabeth Pike Elizabeth, WV 26143	Active	2,388	Big Injun - Sandstone	N/A
073-00176	W.F. & R.L. Zickefoose 50 Purdy Rd. Burgettstown, PA 15201	Active	1,869	Injun-Oil	N/A
073-00264	Unknown	Abandoned	1,655	N/A	N/A

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73 02594

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. P7M1 _____

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) Sugar Creek of outlet 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))

SEP 4/11/2019

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 who are primarily 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 *[Signature]*
Company Official (Typed Name) Chris Lindsey
Company Official Title Office Manager

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Subscribed and sworn before me this 9 day of April, 20 19

Theresa K. Ritter

My commission expires May 12, 2033

Theresa K. Ritter

WV Department of Environmental Protection

Official Seal
Notary Public, State Of West Virginia
Theresa K Ritter
1113 Patterson Fork Road
Salem WV 26426
My commission expires May 12, 2033

05/31/2019

Form WW-9

Operator's Well No. P7N1

Jay-Bee Oil & Gas, Inc.

Proposed Revegetation Treatment: Acres Disturbed 32.98 Prevegetation pH 6.8

Lime 2-3 Tons/acre or to correct to pH 6.8

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 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:

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Title: [Signature] Old Gas Inspecta Date: 4/11/2019

Field Reviewed? (X) Yes () No

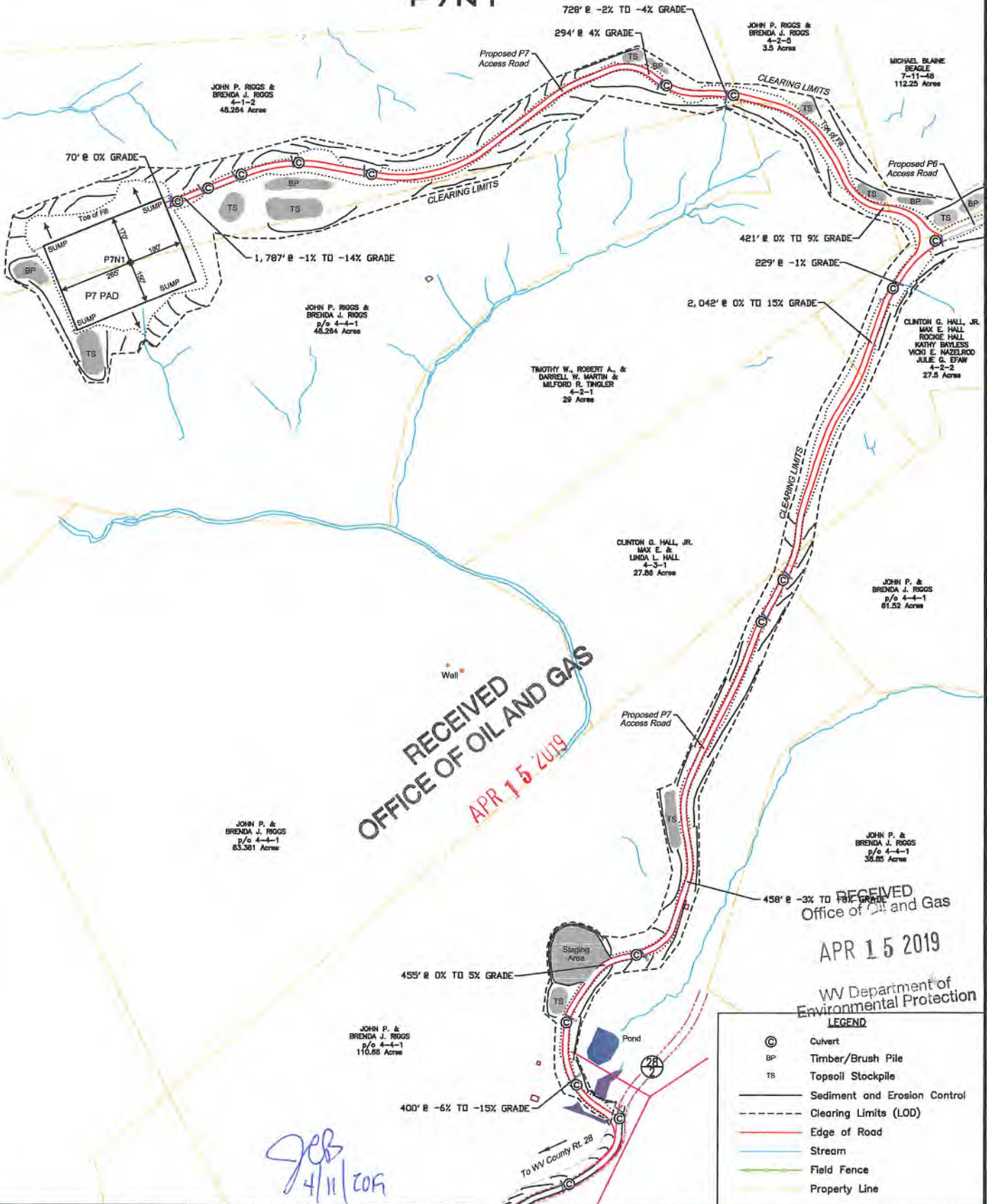
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WW-9

PROPOSED P7 PAD P7N1

SUPPLEMENT PG 1

DRAWING NOT TO SCALE



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LEGEND

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

JCB
4/11/2019

Jackson Surveying Inc.
877 W. Main St.
Clarksburg, Wv 26301
Phone: 804-628-6861

TOPO SECTION:

BENS RUN 7.5'

COUNTY	DISTRICT
PLEASANTS	LAFAYETTE
DRAWN BY	PROJECT
J.A.H	P7N1

OPERATOR:

PREPARED FOR:
JAYBEE OIL & GAS INC.
3570 SHIELDS HILL RD.
CAIRO, WV 26337

DATE	SCALE
01-08-2019	NONE

Jay Bee Oil & Gas
DRILLING into the future

47 07 302594

05/31/2019

P7N1

WELL SITE SAFETY PLAN

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JAY-BEE OIL & GAS, INC

JCB
4/11/2019

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05/31/2019

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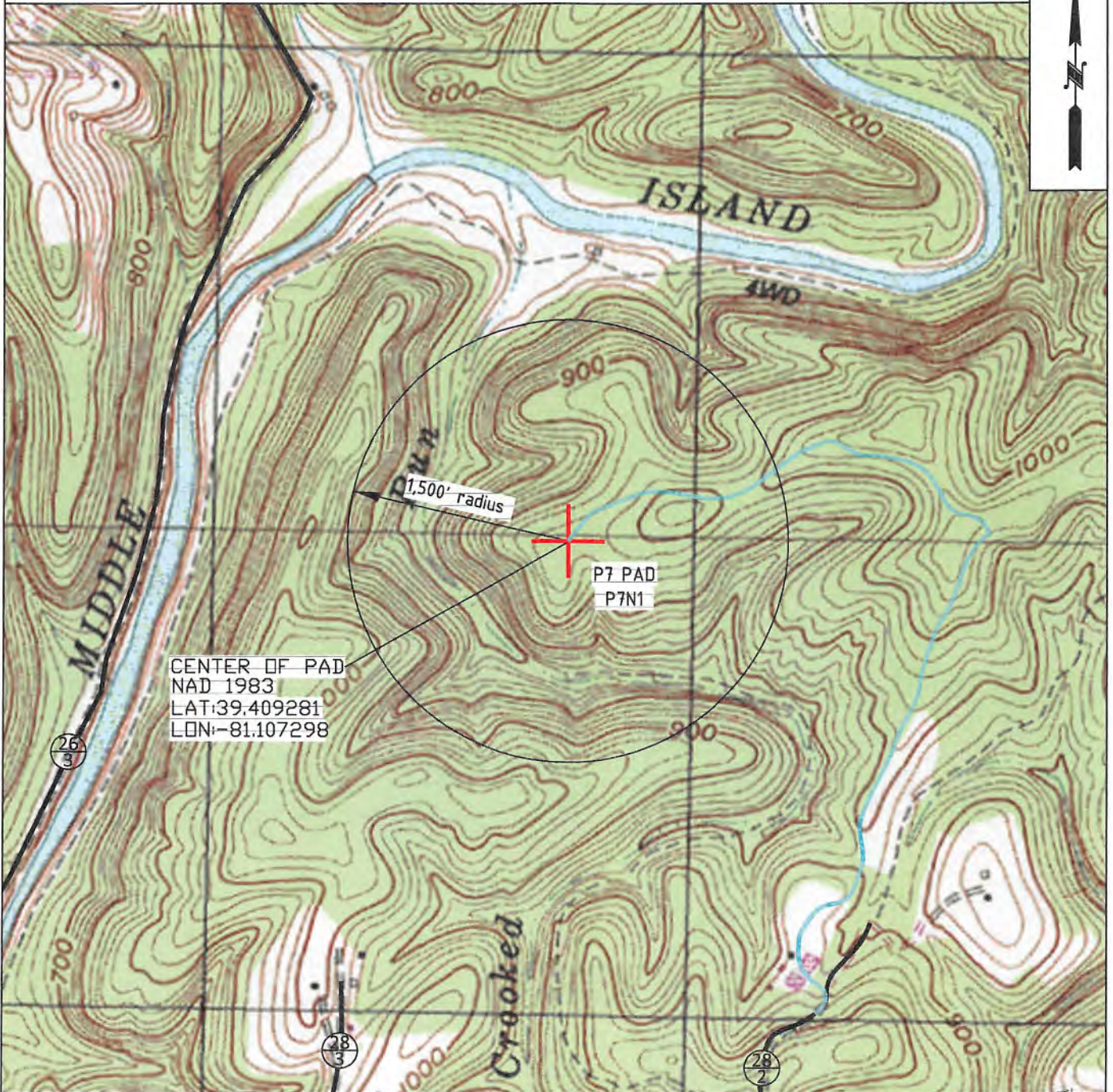
OFFICE OF OIL AND GAS
SUPPLEMENT PG 1


APR 15 2019

WW-6A

PROPOSED P7 PAD P7N1

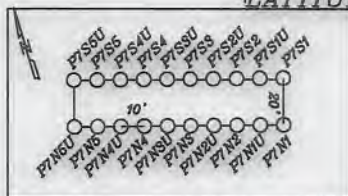
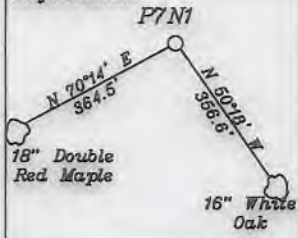
There appears to be Zero (0) possible water sources within 1,500'.



 <p>Jay Bee Oil & Gas DRILLING into the future</p>	OPERATOR	P7N1	TOPO SECTION	LEASE NAME
	JAYBEE OIL & GAS INC. 3570 Shields Hill Rd. Cairo, WV 26337		BENS RUN 7.5'	RIGGS
			SCALE: 1" = 1000'	DATE: DATE: 01-08-2019

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Office of Oil & Gas
APR 15 2019
WV Department of Environmental Protection

References:



— LEGEND —

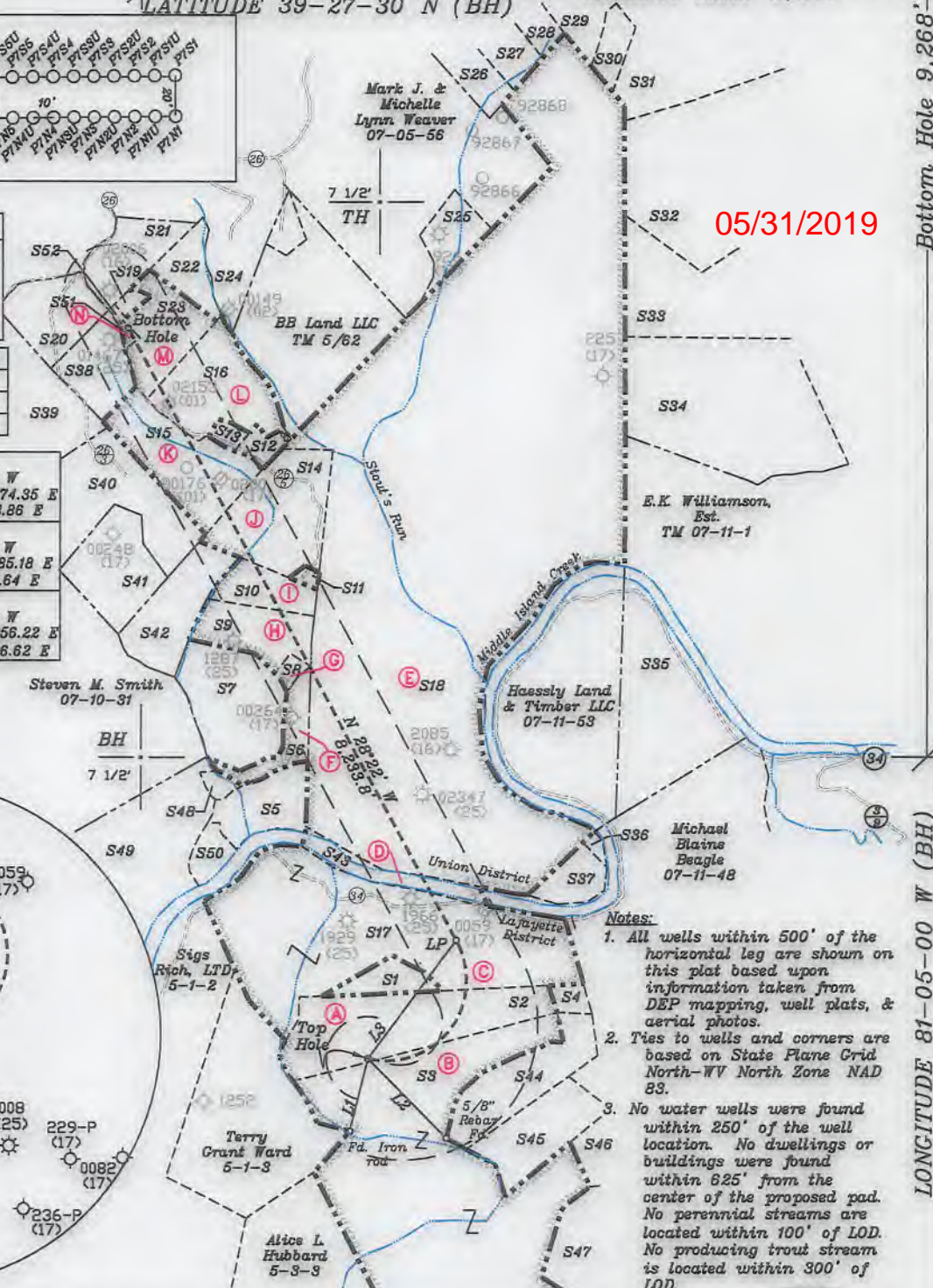
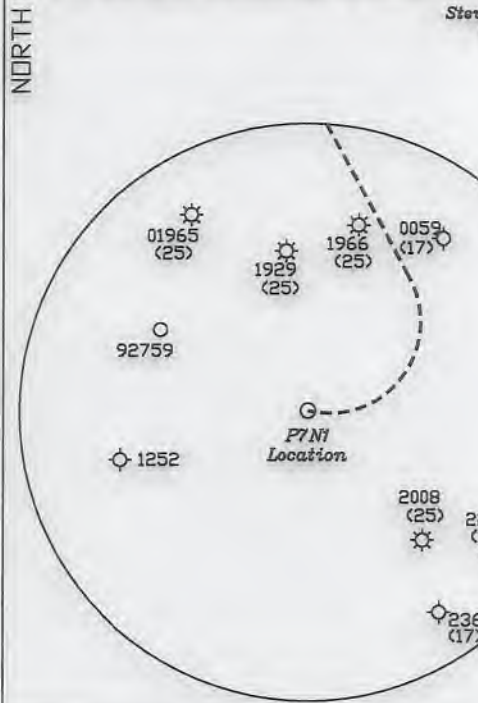
- 500' from Bore Path
- Well Lateral
- Unit Boundary
- Surface Tracts

NUMBER	DIRECTION	DISTANCE
L1	N72°48' E	875.6'
L2	N44°30' W	1,313.0'
L3	N36°40' E	1,747.8'

Top Hole
 Geo NAD 83- 39.409296 N, 81.107162 W
 UTM NAD 83(Meters)-4362203.69 N, 490774.35 E
 UTM NAD 83(Feet)-14311663.22 N, 1610148.86 E

Landing Point
 Geo NAD 83- 39.413196 N, 81.103557 W
 UTM NAD 83(Meters)-4362636.09 N, 491085.18 E
 UTM NAD 83(Feet)-14313081.90 N, 1611168.64 E

Bottom Hole
 Geo NAD 83- 39.432890 N, 81.117866 W
 UTM NAD 83(Meters)-4364823.25 N, 489856.22 E
 UTM NAD 83(Feet)-14320257.62 N, 1607136.62 E



05/31/2019

- 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 Plane 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 825' from the center of the proposed pad. No perennial streams are located within 100' of LOD. No producing trout stream is located within 300' of LOD.

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 d. Jackson
 R.P.E. _____ P.S. 708



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

DATE April 11, 2019
 OPERATOR'S WELL NO. P7N1
 API WELL NO. _____

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

LOCATION: ELEVATION 953.0 WATER SHED Crooked Run of Outlet Middle Island Creek (HUC-10)
 DISTRICT Lafayette COUNTY Pleasants
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER John P. Riggs & Brenda J. Riggs ACREAGE 48.264 Ac.
 OIL & GAS ROYALTY OWNER Donna Stine, Mark Stine, Russell Martin, Randall Riggs, & Robert Sorsby LEASE ACREAGE 48.264 Ac.
 LEASE NO. P4024

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 = 5,986'; TMD = 16,468'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

LONGITUDE 81-05-00 W (BH) LONGITUDE 81-05-00 W (TH) Top Hole 2,685'

form ww6

JACKSON SURVEYING
INC.

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

TRACT	SURFACE OWNER	TAX MAP/PARCEL	LEASE#
S1	JOHN P. & BRENDA J. RIGGS	04-1-3	
S2 (A)	JOHN P. & BRENDA J. RIGGS	04-1-2	P4024
S3 (B)	JOHN P. & BRENDA J. RIGGS	04-4-1	P4050
S4	JOHN P. & BRENDA J. RIGGS	04-2-5	
S5	JED H. & MARIE BATES	07-10-36.3	
S6 (F)	JOHN P. & BRENDA J. RIGGS	07-10-49	P7272A
S7	LARRY O. BARNHART & BRENDA L. BARNHART JESSE M. BARNHART & JUDITH K. BARNHART	07-10-24	
S8 (G)	LARRY O. BARNHART & BRENDA L. BARNHART JESSE M. BARNHART & JUDITH K. BARNHART	07-10-26	P7272C
S9 (H)	LARRY O. BARNHART & BRENDA L. BARNHART JESSE M. BARNHART & JUDITH K. BARNHART	07-10-17	P7273
S10 (I)	LARRY O. BARNHART & BRENDA L. BARNHART JESSE M. BARNHART & JUDITH K. BARNHART	07-10-25	P7234
S11	LARRY O. BARNHART & BRENDA L. BARNHART JESSE M. BARNHART & JUDITH K. BARNHART	07-10-7.1	
S12	RICHARD C. & DIANE BEANE	07-10-55	
S13	RICHARD C. & DIANE BEANE	07-10-56	
S14 (J)	RICHARD C. & REBECCA D. BEANE	07-10-7	P7082
S15 (K)	RICHARD C. & DIANE BEANE	07-10-6	P7114
S16 (L)	JOSEPH & CYNTHIA AYERS	07-5-61	P7238
S17 (C)	JOHN P. & BRENDA J. RIGGS	04-1-01	P5106
S18 (E)	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-10-18A	P7098
S19	WILLIAM M. & PAMELA S. WORSTELL	07-5-60.2	
S20	CHARLES E. & LINDA M. BARNHART	07-5-57	
S21	CHARLES HOWELL & BETTY DELONG & CHARLES HOWELL	07-5-53	
S22	MARY BARNHART	07-5-54	
S23 (M)	JOSEPH & CYNTHIA AYERS	07-5-60	P7110
S24	NELLIE M. BARNHART	07-5-65	
S25	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-05-56.1	
S26	CARROLL L. ASH	07-05-36	
S27	RONALD W. METZ (LIFE EST.)	07-05-37	
S28	NATHAN WADE BENNETT	07-06-109	
S29	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-06-100	
S30	DAVID ROGER & PATTY SUE MCCARTNEY	07-06-30.1	
S31	CHARLES R. & BETH ANN MANKINS	07-06-30	
S32	LOUIE A. STANLEY	07-06-37	
S33	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-06-64	
S34	BB LAND, LLC	07-06-66	
S35	BILLY D. HANLIN	07-11-50	
S36	JOHN TICE	07-11-51.1	
S37	JED & EVELYN BATES	07-11-51	
S38	CHARLES E. BARNHART JR.	07-05-59	
S39	JOHN EARL EFAW & JANET SUE EFAW	07-10-4	
S40	LARRY O. BARNHART & BRENDA L. BARNHART JESSE M. BARNHART & JUDITH K. BARNHART	07-10-5	
S41	STEPHEN G. TAYLOR, STEPHEN & LORI M. TAYLOR & CLIFFORD E. TAYLOR	07-10-15	
S42	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-10-16	
S43 (D)	STATE OF WV DNR	MIDDLE ISLAND CREEK	
S44	TIMOTHY W. MARTIN, ROBERT A. TINGLER, DARRELL W. TINGLER & MILFORD R. TINGLER	04-02-01	
S45	CLINTON C. HALL, JR. ESTATE	04-03-01	
S46	JOHN P. & BRENDA J. RIGGS	04-04-05	
S47	JOHN P. & BRENDA J. RIGGS	04-04-06	
S48	JED H. BATES & MARIE BATES	07-10-36	
S49	STEVEN M. SMITH	07-10-32	
S50	JED HUNTER BATES, EVELYN MARIE BATES & BEVERLY ANN BATES	07-10-36.5	
S51 (N)	JOSEPH & CYNTHIA AYERS	07-5-60.1	P7110
S52	ROBERT E. COTTRILL TRUST DATED 02/05/02, C/O BETTY J. COTTRILL	07-5-58	

05/31/2019



P.S. 708

David L. Jackson

47-073-02594 H6A



Jay Bee
Oil & Gas

DRILLING
into the future

OPERATOR'S
WELL #: P7N1
DISTRICT: LAFAYETTE
COUNTY: PLEASANTS
STATE: WV

WELL PLAT
PAGE 2 OF 2
DATE: 04/11/2019

**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
----------------------	-----------------------	-----------------------	---------	-----------

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

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

Well Operator Jay Bee Oil and Gas, Inc

By: Chris Lindsey



It's Office Manager

P7N1 Exhibit to WW 6A1						
Tracts	Tax Map/Parcel Lafayette (4)/Union (7)	Lease #	Lessor, Grantor, etc	Lessee, Grantee, etc	Royalty	Deed Book-Page
	District					
A	4-1-2	P4024	Donna Stine	BB, Land, LLC	≥12.5%	318/684
A	4-1-2	P4024	Mark Stine	BB, Land, LLC	≥12.5%	320/414
A	4-1-2	P4024	Russell Martin	BB, Land, LLC	≥12.5%	307/342
A	4-1-2	P4024	Randall Riggs	BB, Land, LLC	≥12.5%	318/593
A	4-1-2	P4024	Robert Sorsby	BB, Land, LLC	≥12.5%	S315/473
B	4-4-1	P4050	John and Bredna Riggs	Blackrock Enterprises	≥12.5%	294/287
B	4-4-1	P4050	Blackrock Enterprises	BB, Land, LLC	assignment	294/300
C	4-1-1	P5106	John and Bredna Riggs	Blackrock Enterprises	≥12.5%	298/364
C	4-1-1	P5106	Blackrock Enterprises	BB, Land, LLC	assignment	298/408
D	Middle Island Creek	MIC 7	WVDNR	Jay Bee Production Compnay	≥12.5%	pending
E	7-10-18A	P7098	John Grim	Blackrock Enterprises	≥12.5%	293/619
E	7-10-18A	P7098	Erma Pethel	Blackrock Enterprises	≥12.5%	304/479
E	7-10-18A	P7098	Linda L. Shimer	Blackrock Enterprises	≥12.5%	293/620
E	7-10-18A	P7098	Blackrock Enterprises	BB, Land, LLC	assignment	295/2018
F	7-10-49	P7272A	John and Brenda Riggs	BB, Land, LLC	≥12.5%	324/334
G	7-10-26	P7272C	Jesse and Judith Barnhart	Rockford Energy	≥12.5%	304/155
G	7-10-26	P7272C	Larry and Brenda Barnhart	Rockford Energy	≥12.5%	304/152
G	7-10-26	P7272C	Rockford Energy	BB Land, LLC	assignment	307/673
H	7-10-17	P7273	Jesse and Judith Barnhart	Triad Hunter	≥12.5%	131/489
H	7-10-17	P7273	Larry and Brenda Barnhart	Triad Hunter	≥12.5%	131/489
H	7-10-17	P7273	Traid Hunter	BB Land, LLC	assignment	310/675
I	7-10-25	P7234	Orville Young	BB Land, LLC	≥12.5%	306/419
J	7-10-7	P7082	John and Bredna Riggs	Blackrock Enterprises	≥12.5%	294/467
J	7-10-7	P7082	Blackrock Enterprises	BB, Land, LLC	assignment	294/474
K	7-10-6	P7114	Richard and Diane Beane	Middle Island Minerals	≥12.5%	301/380
K	7-10-6	P7114	Middle Island Minerals	BB, Land, LLC	assignment	301/511
L	7-5-61	P7238	Jospeh and Cynthia Ayers	Middle Island Minerals	≥12.5%	302/272
L	7-5-61	P7238	Middle Island Minerals	BB, Land, LLC	assignment	303/228
M	7-5-60	P7110	Betty Albers	BB, Land, LLC	≥12.5%	325/192
M	7-5-60	P7110	Barbara Beagle	BB, Land, LLC	≥12.5%	324/368
M	7-5-60	P7110	Donald Beagle	BB, Land, LLC	≥12.5%	324/619
M	7-5-60	P7110	Donna Callais	BB, Land, LLC	≥12.5%	324/622
M	7-5-60	P7110	Janice Childers	BB, Land, LLC	≥12.5%	324/625
M	7-5-60	P7110	Edie Lowry	BB, Land, LLC	≥12.5%	324/613
M	7-5-60	P7110	Gary Stephen	BB, Land, LLC	≥12.5%	324/616
M	7-5-60	P7110	Ronald Wilson	BB, Land, LLC	≥12.5%	325/189
N	7-5-60.1	P7110	Jospeh and Cynthia Ayers	Middle Island Minerals	≥12.5%	307/496
N	7-5-60.1	P7110	Middle Island Minerals	BB, Land, LLC	assignment	308/285
N	7-5-60.1	P7110	Betty Albers	BB, Land, LLC	≥12.5%	325/192
N	7-5-60.1	P7110	Barbara Beagle	BB, Land, LLC	≥12.5%	324/368
N	7-5-60.1	P7110	Donald Beagle	BB, Land, LLC	≥12.5%	324/619
N	7-5-60.1	P7110	Donna Callais	BB, Land, LLC	≥12.5%	324/622
N	7-5-60.1	P7110	Janice Childers	BB, Land, LLC	≥12.5%	324/625
N	7-5-60.1	P7110	Edie Lowry	BB, Land, LLC	≥12.5%	324/613
N	7-5-60.1	P7110	Gary Stephen	BB, Land, LLC	≥12.5%	324/616
N	7-5-60.1	P7110	Ronald Wilson	BB, Land, LLC	≥12.5%	325/189

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

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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 P7N1 well (API No(s) to be determined), on Form WW-6A1.
4. We certify that we are authorized by the owner of the working interest in the well to state that it shall tender to the owner of the oil or gas in place not less than one eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.
5. We certify under the penalty of law that we have personally examined and are familiar with the information contained and referenced herein and that, based on our inquiries of those individuals immediately responsible for obtaining the information, we believe that the information is true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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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 4th day of April, 2019 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: July 23, 2020.

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

[Signature]
NOTARY PUBLIC



Taken, subscribed and sworn to before me, the undersigned Notary Public, this 4th day of April, 2019 by Randy Broda, Managing Member of BB Land, LLC, on behalf of the company.

My commission expires: July 23, 2020.

[Signature]
NOTARY PUBLIC



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05/31/2019
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JAY-BEE OIL & GAS, INC.

April 11, 2019

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

RE: P7N1 Well

Permitting Office:

As you know we have applied for a well permit for the P7N1 Well in Pleasants County, West Virginia. This pad is located on what we call the P4024 tract. This wellbore does not travel under any public roads maintained by the WV Department of Highways.

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

Sincerely,

Chris Lindsey
Office Manager

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

Date of Notice Certification: 04/12/2019

API No. 47- _____ - _____

Operator's Well No. P7N1

Well Pad Name: P7

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83	Eastings: <u>490,774.35</u>
County: <u>Pleasants</u>		Northing: <u>4,362,200.01</u>
District: <u>Lafayette</u>	Public Road Access: <u>Mt. Pleasant Rd.</u>	
Quadrangle: <u>Bens Run 7.5'</u>	Generally used farm name: <u>John and Brenda Riggs</u>	
Watershed: <u>Middle Island Creek</u>		

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

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

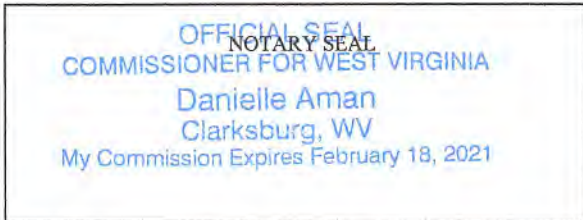
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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Certification of Notice is hereby given:

THEREFORE, I Christopher Lindsey, 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 and Gas Inc.</u>	Address:	<u>3570 Shields Hill Rd Cairo, WV 26337</u>
By:	<u>Chris Lindsey</u>		
Its:	<u>Office Manager</u>	Facsimile:	<u>304-929-3119</u>
Telephone:	<u>304-628-3111</u>	Email:	<u>clindsey@jaybeeoil.com</u>



Subscribed and sworn before me this 11 day of April, 2019.
Danielle Aman Notary Public
 My Commission Expires 2-18-2021

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.

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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: 4/12/2019 **Date Permit Application Filed:** 4/16/2019

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: John and Brenda Riggs
Address: P.O. Box 551 St. Marys, WV 26170

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: John and Brenda Riggs
Address: P.O. Box 551 St. Marys, WV

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: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary.

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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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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, 2019, 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

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WW-6A
(8-13)

API NO. 47- 73 - 02504 - 05/31/2019
OPERATOR WELL NO. P7N1
Well Pad Name: _____

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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APR 15 2019
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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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WW-6A
(8-13)

73 02594
API NO. 47- 05/31/2019
OPERATOR WELL NO. P7N1
Well Pad Name: _____

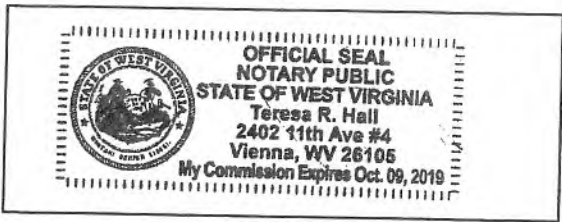
Notice is hereby given by:

Well Operator: Jay Bee Oil and Gas, Inc
Telephone: 304-628-3111
Email: clindsey@jaybeoil.com

Address: 3570 Shields Hill Rd.
Cairo, WV 26337
Facsimile: 304-629-3111

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.



Subscribed and sworn before me this 9th day of Apr. 2019.
Teresa R. Hall Notary Public
My Commission Expires Oct 9th 2019

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P7 6A/6A5 Listing	
Name	Address
John and Brenda Riggs	P.O. Box 551 St. Marys, WV 26170
Max and Linda Hall	2048 Hebron Rd. St. Marys, Wv 26170
Clinton Hall c/o Chris Hall	741 Sycamore St. Belpre, OH 45714
Rockie Hall	P.O. Box 385 St. Marys, WV 26170
Kathy Bayless	4209 Stella St. Parkersburg, WV 26104
Vickie Nezelrod	163 Hebron Rd. St. Marys, WV 26170
Julie Efaw	711 N. 9th Ave. Paden city, WV 26159
Darrell Tinger	16950 W. Phil C Peters Rd. Winter Garden, FL 34787
Milford Tingler	1005 Nuway Drive, Pleasant View, TN 37146
Timothy Martin	27 Robinson Lane Weirton, WV 26062
Robert Martin	30 Whispering Pines Lane New Cumberland, WV 26047

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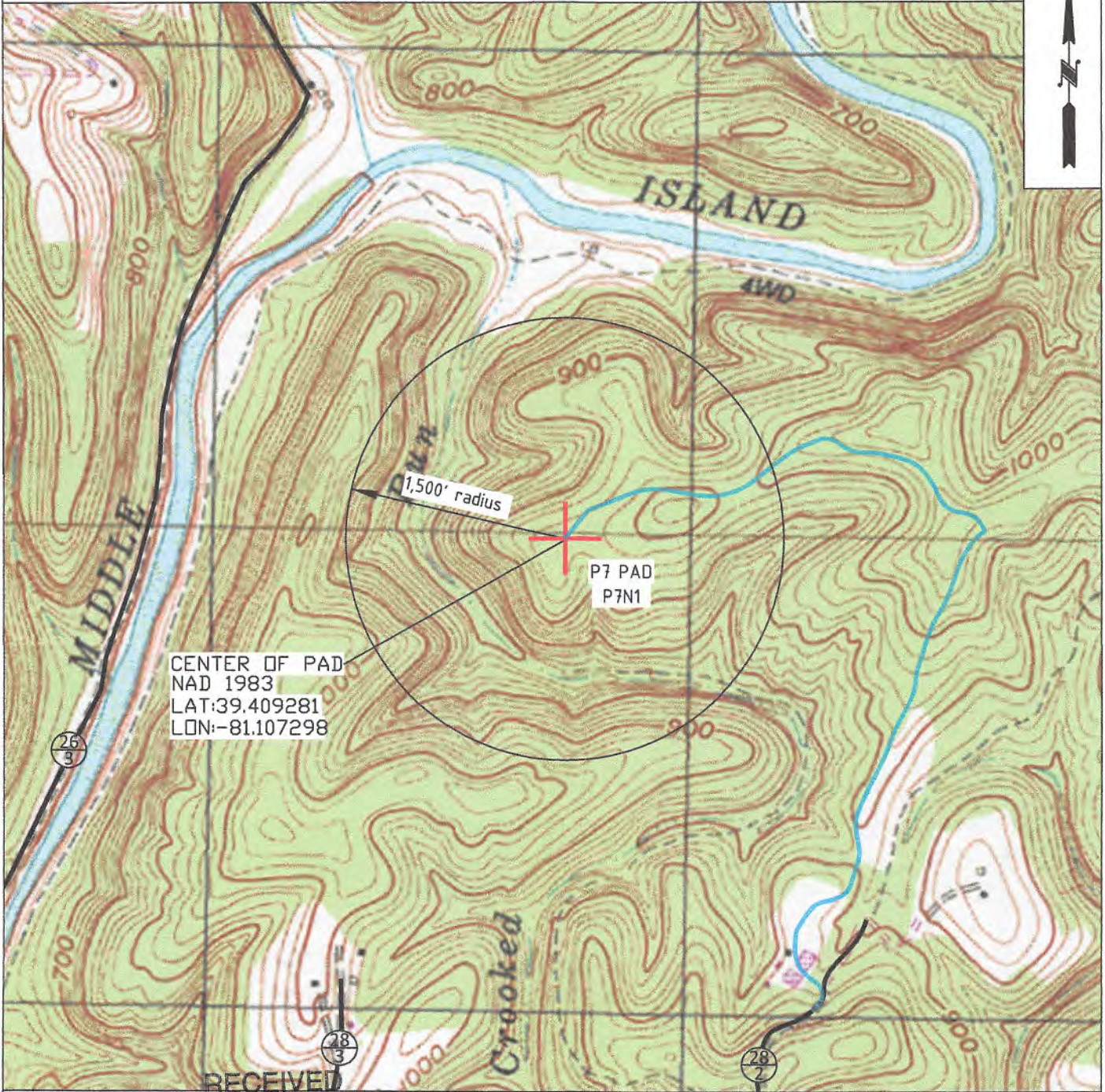
WV Department of
Environmental Protection

WW-6A

PROPOSED P7 PAD P7N1

SUPPLEMENT PG 1

There appears to be Zero (0) possible water sources within 1,500'.



OFFICE OF OIL AND GAS

Jay Bee Oil & Gas

APR 15 2019
into the future

OPERATOR	P7N1	TOPO SECTION	LEASE NAME
JAYBEE OIL & GAS INC. 3570 Shields Hill Rd. Cairo, WV 26337		BENS RUN 7.5'	RIGGS
		SCALE:	DATE:
		1" = 1000'	DATE: 01-08-2019

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: 10-11-2018 **Date of Planned Entry:** 10-17-2018

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

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

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

Notice is hereby provided to:

- SURFACE OWNER(s)

Name: John and Brenda Riggs
Address: P.O. Box 551 St. Marys, WV 26170

Name: _____
Address: _____

Name: _____
Address: _____

- COAL OWNER OR LESSEE

Name: _____
Address: _____

- MINERAL OWNER(s)

Name: John and Brenda Riggs
Address: P.O. Box 551 St. Marys, WV 26170

*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: Lafayette
Quadrangle: Bens Run 7.5'

Approx. Latitude & Longitude: 39.409262 x -81.107510
Public Road Access: Mt Pleasants Rd
Watershed: Outlet of Middle Island Creek
Generally used farm name: John & Brenda Riggs

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 57th 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.

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Environmental Protection

05/31/2019

6A3 Plat Notice Recipients

	First	Surname	Address	City	State	Zip
	P4024	John P. & Brenda	Riggs	P. O. Box 551	St. Marys	WV 26170
	P4024	Mark & Donna	Stine	53167 Lepage Rd.	Cumberland	OH 43732
	P4113	John P. &	Riggs	P. O. Box 551	St. Marys	WV 26170
	P4113	Mark & Donna	Stine	53167 Lepage Rd.	Cumberland	OH 43732
	P5106	John P. & Brenda	Riggs	P. O. Box 551	St. Marys	WV 26170
	P7098	Linda	Shimer	119 Roszel Road	Winchester	VA 22601
	P7098	John	Grim	402 Parmaco Street	Parkersburg	WV 26101
	P7098	Erma	Pethtel	2317 Broad Street	Parkersburg	WV 26101
	P7272C	Larry & Brenda	Barnhart	1868 Pike Rd	St. Marys	WV 26170
P7N1	P7272C	Jesse & Judith	Barnhart	3975 Pike Rd	St. Marys	WV 26170
	P7273	Larry & Brenda	Barnhart	1868 Pike Rd	St. Marys	WV 26170
	P7273	Jesse & Judith	Barnhart	3975 Pike Rd	St. Marys	WV 26170
	P7234	Larry & Brenda	Barnhart	1868 Pike Rd	St. Marys	WV 26170
	P7234	Jesse & Judith	Barnhart	3975 Pike Rd	St. Marys	WV 26170
	P7234	Orville Young, LLC		1210 SW 52th Terrace Ave	Cape Coral	FL 33914
	P7083	Golden Eagle Resources, LLC		600 Jefferson Street, Suite 2000	Houston	TX 77002
	P7114	Richard C. & Diane	Beane	537 Stouts Run Rd.	St. Marys	WV 26170
	P7114	Raymond	Daily	16155 Township Rd. 1390	Frazeysburg	OH 43822
	P7114	Ridgewood Development, LLC		955 Bull Creek Rd.	Waverly	WV 26184
	P7238	Joseph & Cynthia	Ayers	139 Stouts Run Road	St Marys	WV 26170

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WV Department of
Environmental Protection

WW-6A5
(1/12)

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: 04/12/2019 Date Permit Application Filed: 04/16/2019

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: John and Brenda Riggs	Name: _____
Address: P.O. Box 551	Address: _____
St. Marys, WV 26170	_____

Notice is hereby given:

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

State: West Virginia	UTM NAD 83	Easting: 490, 744.35
County: Pleasants		Northing: 4,362,200.01
District: Lafayette	Public Road Access: Mt. Pleasant Rd	
Quadrangle: Bens Run 7.5'	Generally used farm name: John and Brenda Riggs	
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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Jay-Bee Oil & Gas, Inc.	Address: 3570 Shields Hill Rd.
Telephone: 304-628-3111	Cairo, WV 26337
Email: clindsey@jaybeeoil.com	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.

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

WAIVER

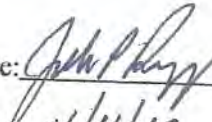
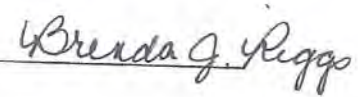
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Surface Owner Waiver:

We, John and Brenda Riggs, hereby state that we have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>490,744.35</u>
County:	<u>Pleasants</u>	Northing:	<u>4,362,200.01</u>
District:	<u>Lafayette</u>	Public Road Access:	<u>Federal Ridge Rd.</u>
Quadrangle:	<u>Bens Run 7.5</u>	Generally used farm name:	<u>John and Brenda Riggs</u>
Watershed:	<u>Middle Island Creek</u>		

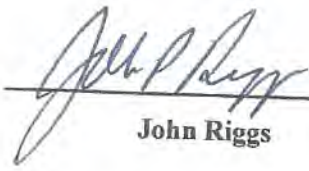
Name: John and Brenda Riggs
Address: P.O. Box 551, St. Marys, WV 26146
304-299-2573

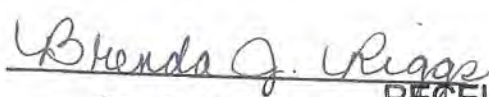
Signature:  
Date: 4/4/19

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.

The intent of this waiver is waive notice requirements under West Virginia Code § 22-6A-16(b) for all wells to be drilled by Jay Bee Oil and Gas, Inc on the P6 and P7 drilling locations located in Pleasants County, West Virginia. We have voluntary entered into agreements with Jay Bee to construct a road and drilling location on our property. If you have any questions or concerns please do not hesitate to contact me.


John Riggs


Brenda Riggs

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05/31/2019



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

December 18, 2018

Jill M. Newman
Deputy Commissioner

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

Subject: DOH Permit for the P7 Pad, Pleasants County
P7N1 Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #03-2018-0492 issued to Jay-Bee Oil & Gas, Inc. for access to the State Road for a well site located off of Pleasants County Route 28/2 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

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

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Environmental Protection

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

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

RE: Frac Additives

Permitting Office:

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

- Water (7732-18-5)
- Sand (14808-60-7, 1344-28-1, 1309-37-1, 13463-67-7)
- Friction Reducer (64742-47-8)
- Scale Inhibitor (107-21-1, 111-46-6)
- Bacteria Prevention (111-30-8, 7173-51-5, 68424-85-1, 64-17-5)
- 15% Vol Acid (7647-01-0)
- Citric Acid (77-92-9)
- Guar Gum (9000-30-0)
- Corrosion Inhibitor (67-56-1, 107-19-7)
- Surfactant (111-76-2)

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

Sincerely,

Chris Lindsey
Office Manager

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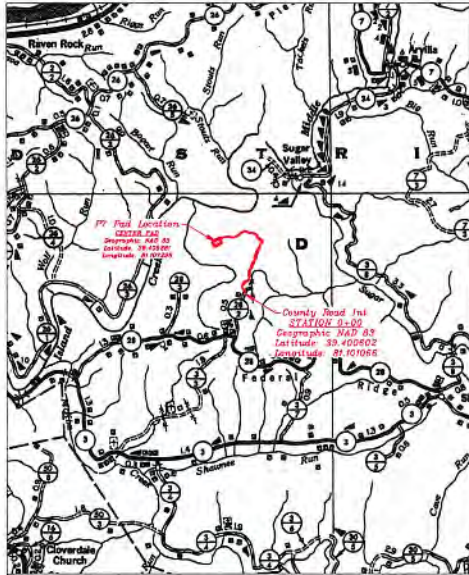
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Environmental Protection

73-02594



COUNTY HIGHWAY MAP
NOT TO SCALE

INDEX OF SHEETS	
COVER	1
NOTES AND DETAILS	2-8
PLAN AND PROFILE SHEETS	9-16
PAD PLAN	17
CUI & FILL PLAN	18
PAD SECTIONS	19
ROAD SECTIONS	20-24
DECLAMATION PLAN	25

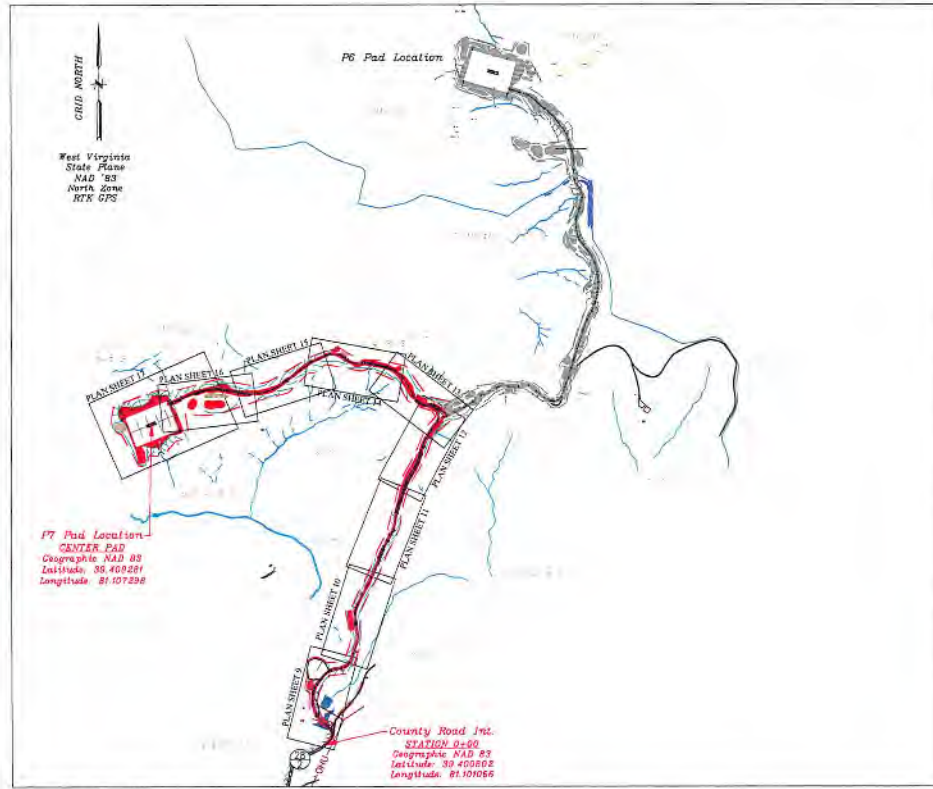
CENTER PAD
Geographic NAD 83
Latitude: 39.409281
Longitude: -81.107299

CENTER ROAD INT.
(Sta. 0+00)
Geographic NAD 83
Latitude: 39.409882
Longitude: -81.109068

P7 WELL PAD SITE PLAN

Prepared for: JAY-BEE OIL & GAS INC.

LAFAYETTE & UNION DISTRICTS
PLEASANTS COUNTY, WEST VIRGINIA
OCTOBER 19, 2018



Scale 1" = 600'



- Notes:
- 1) No water wells were found within 250' of the well location. No dwellings were found within 625' of the center of the well pad.
 - 2) Stream and Wetland delineation are from Allstar Ecology reports dated May 24, 2018. Stream Impact chart on Sheet 2.
 - 3) All property lines shown are approximate and have not been field verified.

TOTAL LIMIT OF DISTURBANCE (LOD): 20.69± ACRES

APPROVED
WVDEP OOG
4/25/2019



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

The information reflects a gas well pad and access road.

Dennis L. Fisher RPE 8684: _____
Date: 11-19-2018

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Jackson Surveying, Inc.
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Charlottesville, VA 22901
504-533-3881

North Central Engineering, LLC
Dennis L. Fisher, RPE
Bankers, W.V. 24130
Cell: 904-877-4129
Dennis.Fisher@neceng.com

FINAL PLAN	REVISION WELL NUMBER	DATE	DESCRIPTION
		11-19-2018	

JAY-BEE OIL AND GAS INC.
P7 WELL PAD SITE PLAN
PLEASANTS COUNTY, WEST VIRGINIA
COVER

SHEET No: 1

