



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

Tuesday, May 29, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

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

UNION, NJ 070830000

Re: Permit approval for LARRY 1
47-095-02497-00-00

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

A blue ink signature of James A. Martin, written in a cursive style.

Operator's Well Number: LARRY 1
Farm Name: JAY BEE OIL & GAS, INC.
U.S. WELL NUMBER: 47-095-02497-00-00
Horizontal 6A New Drill
Date Issued: 5/29/2018

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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.

API Number: 95-02497

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. Larry 1
Well Pad Name: Larry Pad

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 Tyler Ellsworth Middlebourne 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Larry 1 Well Pad Name: Larry Pad

3) Farm Name/Surface Owner: Jay-Bee Oil & Gas, Inc. Public Road Access: Klondike Acres Rd

4) Elevation, current ground: 738.9' Elevation, proposed post-construction: 738.9'

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

(b) If Gas Shallow Deep _____
Horizontal _____

6) Existing Pad: Yes or No Yes

DMH 2-23-18 JCB 2/23/2018

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, Target Depth 6,201', 41-60' thick, 3500# pressure

8) Proposed Total Vertical Depth: 6,201'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,686'

11) Proposed Horizontal Leg Length: 8,035'

12) Approximate Fresh Water Strata Depths: 60-90'

13) Method to Determine Fresh Water Depths: Well Record 47-095-02315

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: N/A

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

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

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

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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	16	New	J55	40	30'	30'	8.22 CTS
Fresh Water	11 3/4	New	J55	32	300'	300'	142.25 CTS
Coal							
Intermediate	8 5/8	New	J55	24	1,800'	1,800'	458 CTS
Production	5 1/2	New	P110	17	15,686'	15,686'	2544 CF 1000' from surface
Tubing	N/A						
Liners	N/A						

DWH 2-23-18 *QCB 2/27/2018*

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

PACKERS

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

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

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

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

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

DMH
2-23-18

JOB
2/23/2018

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.3

22) Area to be disturbed for well pad only, less access road (acres): 6.8

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, Type1 Cement, Fly Ash, Barite, Finetol 300L, R-3 Celio Flake, Sugar, CD-32, FL-62

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25) Proposed borehole conditioning procedures:

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

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

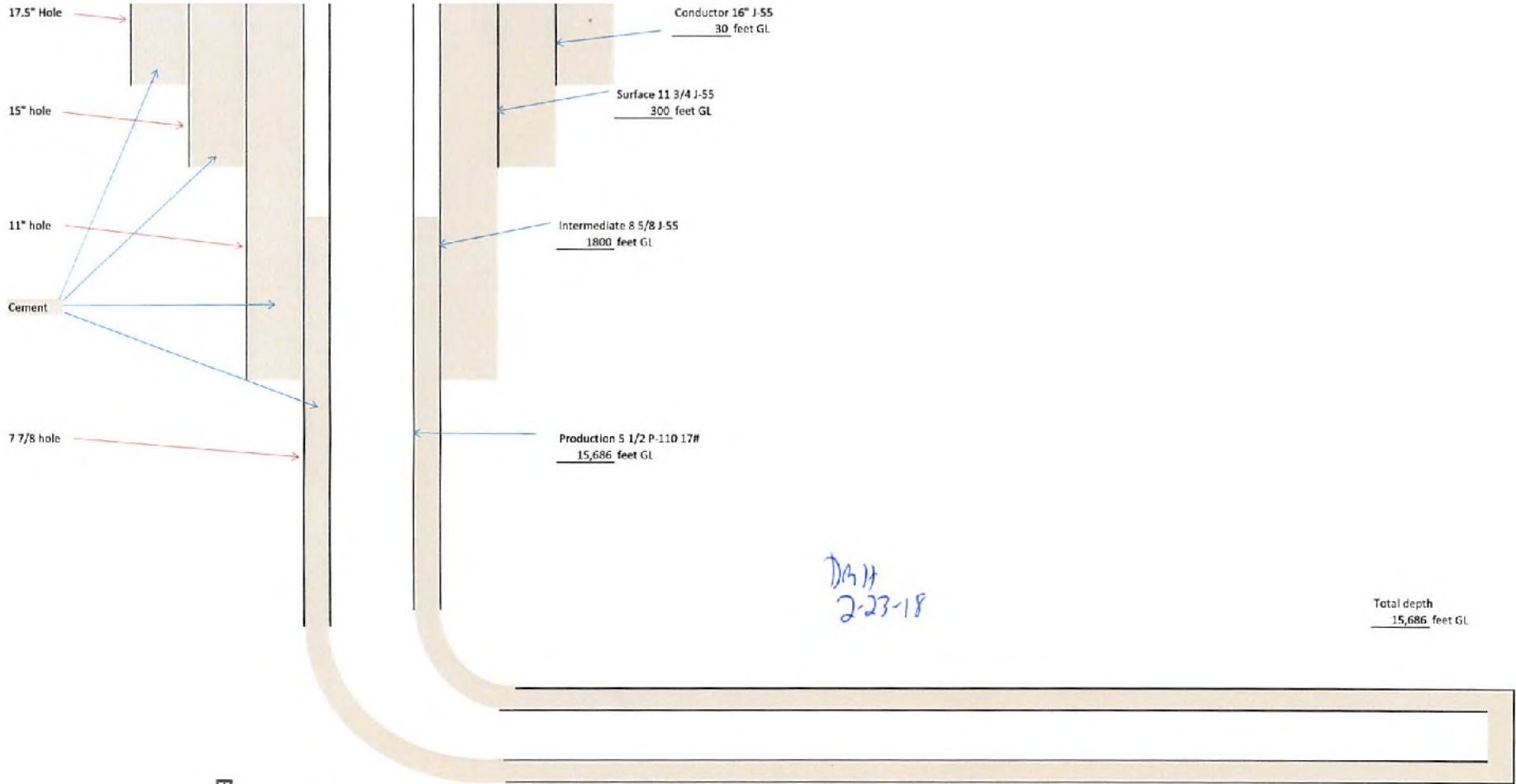
7 7/8" hole for the 5 1/2 production case - Circulate with mud and sweeps for two times bottoms up. If needed weight up mud until no cuttings retrieved, then circulate with mud and sweeps for two times bottoms up.

*Note: Attach additional sheets as needed.

Jay-Bee Oil & Gas Inc.
Well Name Larry 1
GL Elevation 738.9'
KB 14 feet

Date 2/22/2018
District Ellsworth
County Tyler
State West Virginia

Input by: Shane Dowell



DATA
2-23-18

SD
2/22/2018

95-02497

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Jay-Bee Oil & Gas Inc.
Well Name Larry 1
GL Elevation 738.9'

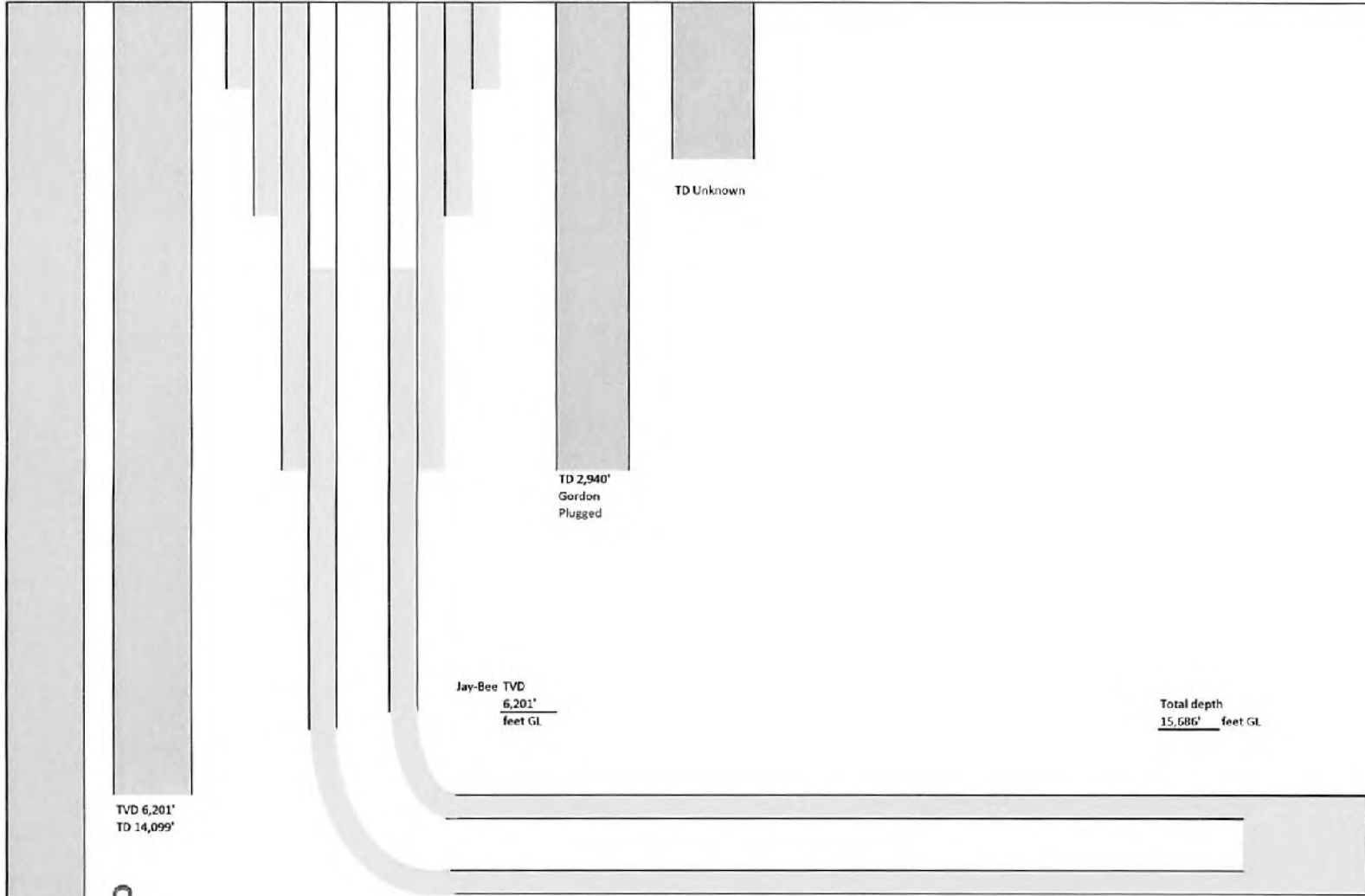
Well-Site Safety Plan Anti-Collision Schematic

API
095-02334
Elev. 738.9'

API
095-02315
Elev. 738.9'

API
095-00374p
Elev. 796'

API
095-00042p
Elev. 1,140'



Jay-Bee TVD
6,201'
feet GL

Total depth
15,686' feet GL

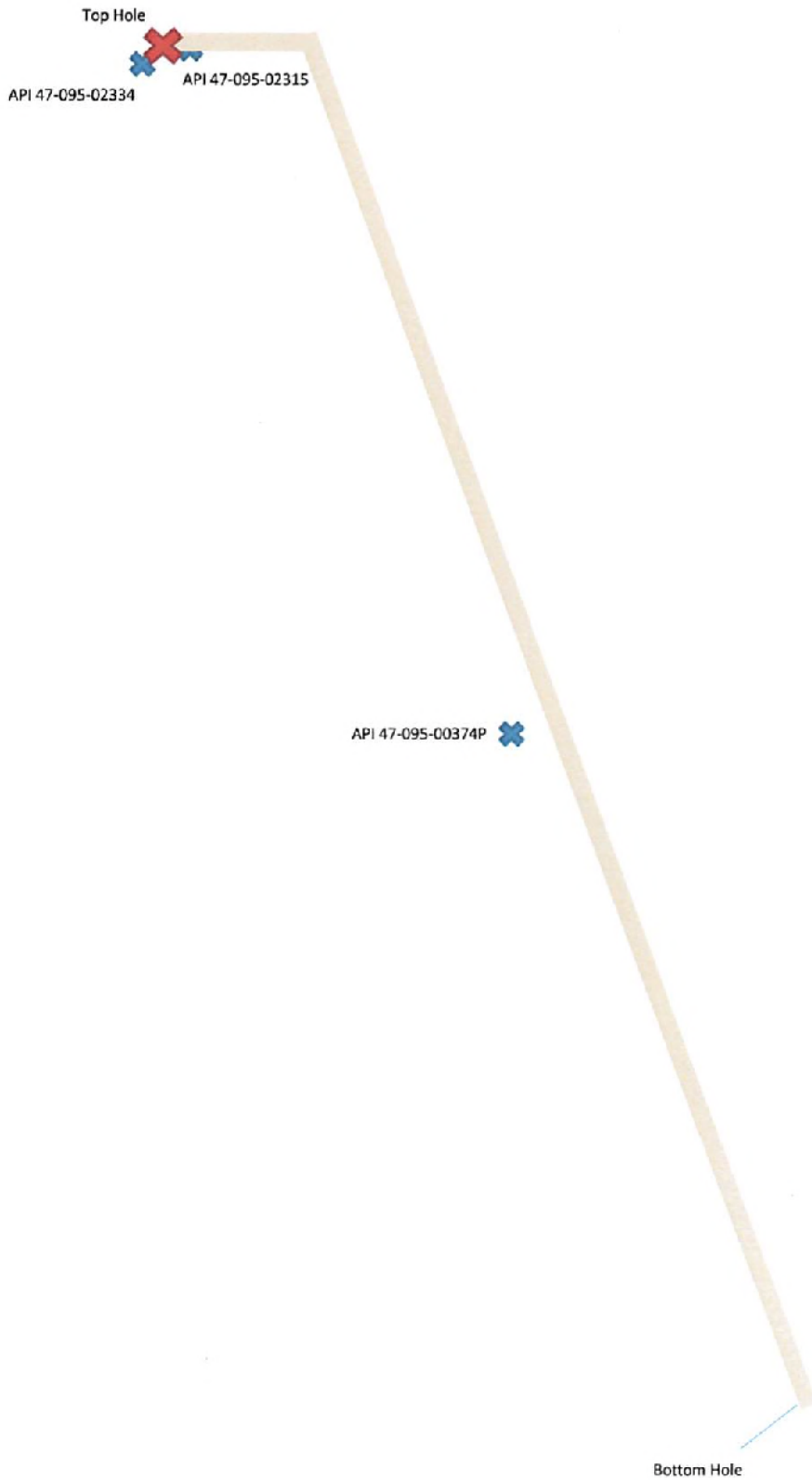
TVD 6,201'
TD 14,099'

TVD 11,061'
TD 17,955'

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Well-Site Safety Plan Anti-Collision Schematic



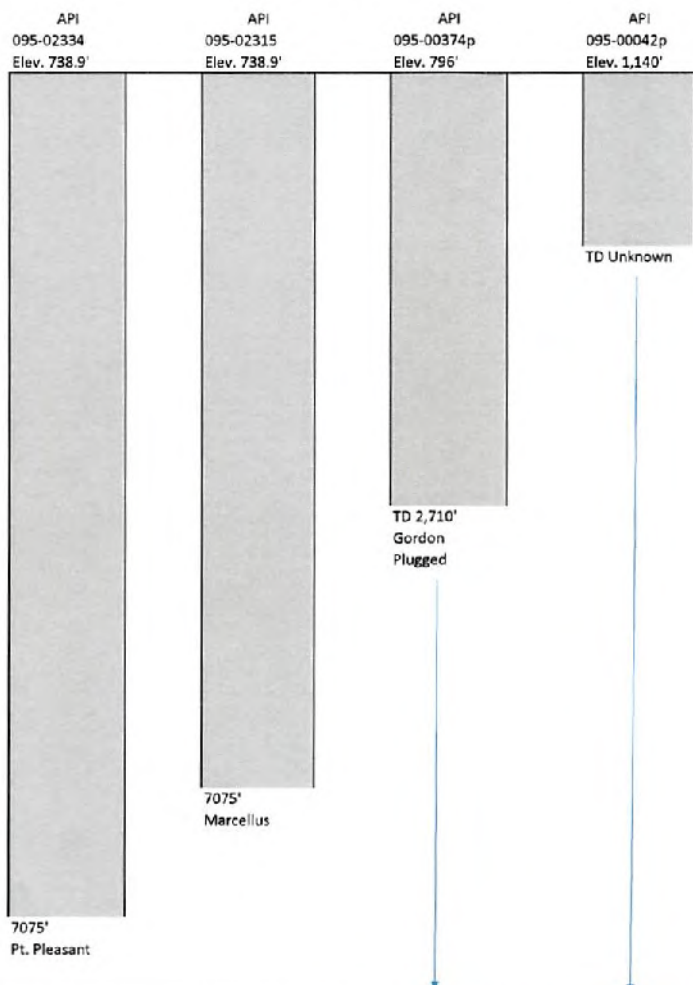
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Area of Review
Larry 1 - API Pending



Operator	Jay-Bee Oil & Gas, Inc	Jay-Bee Oil & Gas, Inc	Gilbert Fouts	Unknown
Well Name	Larry 3U	Larry 2	2	2
Perforated Formations	Pt. Pleasant	Marcellus	Gordon	Unknown
Unperforated Producing Formations	Utica	Elk	Gordon	
	Medina	Alexander	Gantz	
	Newburg	Benson	Berea	
	Helderburg	Riley	Weir	
	Oriskany	Speechley	Big Injun	
	Huntersville	Warren	Keener	
	Onondaga	Gordon	Big Lime	
	Marcellus	Gantz	Maxon	
	Elk	Berea	Big Dunkard	
	Alexander	Weir	Little Dunkard	
	Benson	Big Injun	Cow Run	
	Riley	Keener		
	Speechley	Big Lime		
	Warren	Maxon		
	Gordon	Big Dunkard		
	Gantz	Little Dunkard		
	Berea	Cow Run		
	Weir			
	Big Injun			
	Keener			
Big Lime				
Maxon				
Big Dunkard				
Little Dunkard				
Cow Run				

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WW-9
(4/16)

API Number 47 - 95 - 02497
Operator's Well No. Lary 1

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 Middlebourne 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))

*DMH
2-23-18
JEB
2/23/2018*

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? Barte, ABS MULVIS, 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 *Shane Dowell*
Company Official (Typed Name) Shane Dowell
Company Official Title Office Manager

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Subscribed and sworn before me this 23rd day of February
Teresa R. Hall

My commission expires Oct 9th 2019

WV Department of Environmental Protection

Official Seal
Notary Public, State Of West Virginia
Teresa R. Hall
1724 Valley Mill Rd.
Waverly, WV 26184
My Commission Expires Oct. 09, 2019

95-02497

Form WW-9

Operator's Well No. Larry 1

Jay-Bee Oil & Gas, Inc.

Proposed Revegetation Treatment: Acres Disturbed 17.3 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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FEB 27 2018

Title: Oil & Gas Inspector

Date: 2/23/2018

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Field Reviewed? () Yes () No

95-02497

LARRY 1

WELL SITE SAFETY PLAN

JAY-BEE OIL & GAS, INC

DMH
2-27-18
JEB
2/23/2018
FREEBEEWEEED
Office of Oil and Gas
FREEB 2/26 2018
WV Department of
Environmental Protection

95-02497

6/5/13

Middlebourne, WV to Klondike Acres Rd - Google Maps



Directions to Klondike Acres Rd
4.2 mi – about 11 mins



©2013 Google

Map data ©2013 Google

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95-02497

A Middlebourne, WV

- 
 1. Head **southwest** on **WV-18 S/Main St** toward **Bridgeway Rd**
 Continue to follow WV-18 S
 go 0.2 mi
total 0.2 mi
- 
 2. Take the 1st right onto **Bridgeway Rd**
go 0.1 mi
total 0.3 mi
- 
 3. Turn left onto **Middlebourne-Wick/Wick Rd**
 About 4 mins
 go 2.0 mi
total 2.3 mi
- 
 4. Turn left onto **Middlebourne-Wick**
go 0.1 mi
total 2.4 mi
- 
 5. Keep left to continue on **Co Rd 46/Klondike Ridge**
 About 2 mins
 go 0.4 mi
total 2.8 mi
- 
 6. Slight left onto **Klondike Acres Rd**
 About 4 mins
 go 1.4 mi
total 4.2 mi

B Klondike Acres Rd

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.

Map data ©2013 Google

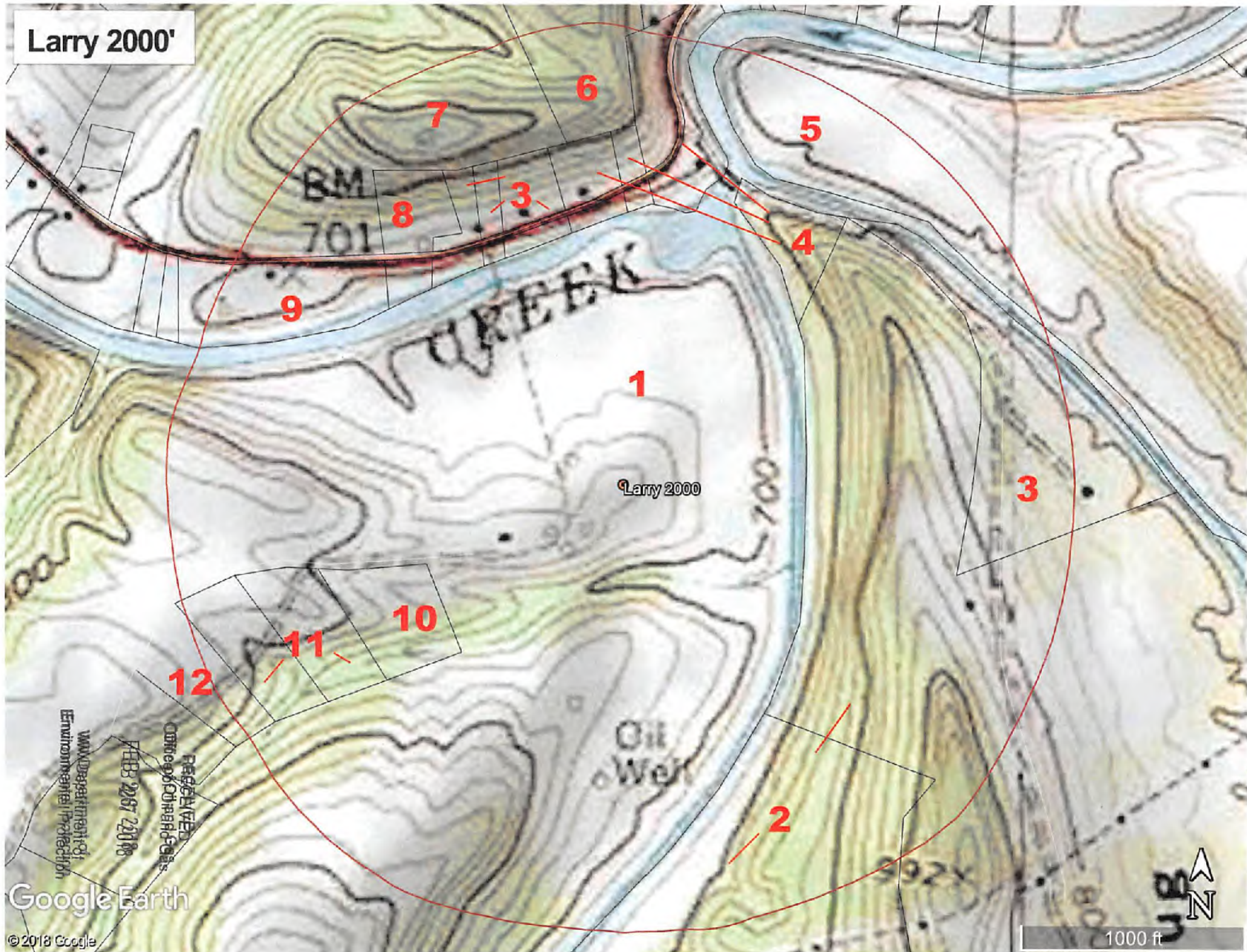
Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.

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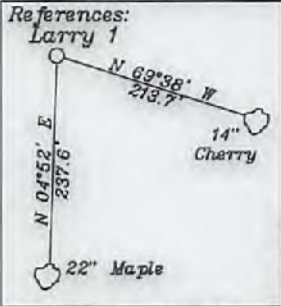
FEB 26 2018

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Larry 2000'



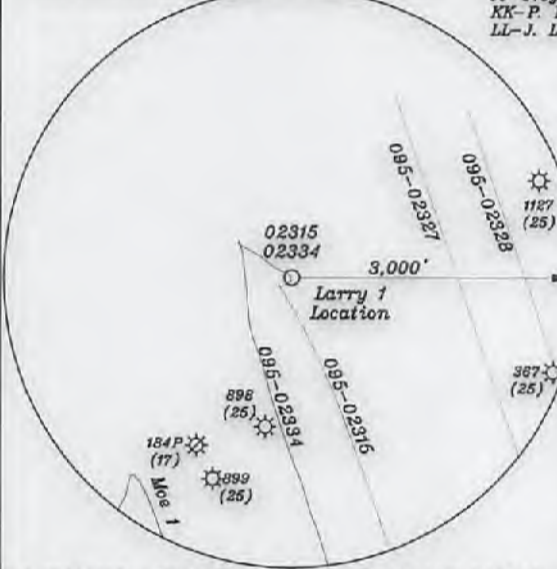
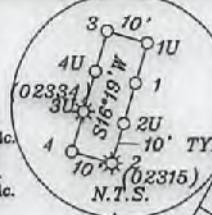
95-02497



LATITUDE 39-30-00 N (TH) Bottom Hole 9,645'
LATITUDE 39-27-30 N (BH)

NUMBER	DIRECTION	DISTANCE
L1	N68°20' E	1,000.0'
L2	N16°28' E	2,498.3'
L3	S86°37' E	949.9'

- A-Peek TM. 26-46.8 2.079 Ac.
- B-Peek TM. 26-46.20 0.652 Ac.
- C-Peek TM. 26-46.19 4.59 Ac.
- D-Peek TM. 26-46.21 0.22 Ac.
- E-Sulser TM. 20-110 4.412 Ac.
- F-Kelly TM. 26-46.18 4.323 Ac.
- G-Kelly TM. 26-46.17 4.114 Ac.
- H-Johnson TM. 26-46.23 3.598 Ac.
- I-Johnson TM. 26-46.22 2.92 Ac.
- J-Holiday TM. 26-46.13 5.94 Ac.
- K-Holiday TM. 26-46.12 3.239 Ac.
- L-Kanz TM. 26-46.7 5.4 Ac.
- M-Kanz TM. 26-46.7 7.32 Ac.
- N-JayBee TM. 26-46.14 8.692 Ac.
- O-Pittman TM. 26-46.2 5.135 Ac.
- P-Johnson TM. 26-46.9 5 Ac.
- Q-Kanz TM. 26-46.6 1.702 Ac.
- R-Kanz TM. 26-46.15 3.722 Ac.
- S-JayBee TM. 26-46.16 5.094 Ac.
- T-Shrader TM. 26-46.1 5.58 Ac.
- U-Ison TM. 26-46.10 4.98 Ac.
- V-Doty TM. 26-46.5 13.14 Ac.
- W-Kanz TM. 26-46.4 8.1 Ac.
- X-Walton TM. 26-46.11 6.43 Ac.
- Y-JayBee TM. 26-46.24 3.059 Ac.
- Z-JayBee TM. 26-19.9 1.496 Ac.
- AA-Weigle TM. 27-22 60.19 Ac.
- BB-Weigle TM. 27-23 61.62 Ac.
- CC-Seckman et al TM. 27-26 128.5 Ac.
- DD-WVDNR TM. 27-3 0.44 Ac. WVDNR
- EE-Villers & Eskew TM. 20-62 67.67 Ac.
- FF-Suder TM. 20-65.1 1.58 Ac.
- GG-Baker TM. 21-39 3.15 Ac.
- HH-Fletcher & Mitchell TM. 21-37 3.86 Ac.



— LEGEND —

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

Notes:
 1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
 2. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
 3. No water wells were found within 250' of the well location. A house was found 564'59" W 580' from the center of the well pad. A wetlands is located 103' from LOD.

Top Hole - TH
 Geo NAD 83- 39.475242 N, 80.880692 W
 UTM NAD 83(Meters)- 4369523.64 N, 510261.66 E
 UTM NAD 83(Feet)-14336678.80 N, 1674083.46 E
Landing Point - LP
 Geo NAD 83- 39.475128 N, 80.877330 W
 UTM NAD 83(Meters)- 4369511.39 N, 510550.84 E
 UTM NAD 83(Feet)-14336638.61 N, 1675032.21 E
Bottom Hole - BH
 Geo NAD 83- 39.454428 N, 80.867491 W
 UTM NAD 83(Meters)- 4367215.31 N, 511400.47 E
 UTM NAD 83(Feet)-14328105.57 N, 1677819.72 E

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 February 22, 2018
 OPERATOR'S WELL NO. Larry 1
 API WELL NO. _____

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

LOCATION: ELEVATION 738.9' WATER SHED Outlet Middle Island Creek (HUC-10)
 DISTRICT Ellsworth COUNTY Tyler
 QUADRANGLE Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)

SURFACE OWNER Jay Bee Oil & Gas, Inc. ACREAGE 286.03 ac.
 OIL & GAS ROYALTY OWNER Ridgetop Capital LP, and Ridgetop Capital II, LP LEASE ACREAGE 286.03 ac.
 LEASE NO. RT2

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 = 6,201'; TMD = 15,686'
 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

95-02497

**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
RT2	Ridgetop Capital, LP	JB Exploration I, LLC	12.5%	392-375
T6002B	WVDNR	JB Exploration I, LLC	12.5%	485-370
T6002A	WVDNR	JB Exploration I, LLC	12.5%	485-358
T6000G	Robert Archer	JB Exploration I, LLC	12.5%	422-161
T6015	EQT Production Company	JB Exploration I, LLC	12.5%	420-571 (539-239)
T6052	Luella Rabel	JB Exploration I, LLC	12.5%	535-321
AFFIDAVIT	JB Exploration I, LLC	Jay-Bee Oil & Gas, Inc.		

**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

*Rec'd
5/20/18
je*

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

Well Operator: Jay-Bee Oil & Gas, Inc.
 By: Shane Dowell
 Its: Office Manager



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 JB Exploration I, 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 JB Exploration I, 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 JB Exploration I, 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 well Larry 1, Larry 3, Larry 4 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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Office of Oil and Gas

FEB 20 2018

WV Department of
Environmental Protection

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 23rd day of February, 2018 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: April 18, 2022



[Signature]
NOTARY PUBLIC

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

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 23rd day of February, 2018 by Randy Broda, Managing Member of JB Exploration I, LLC, on behalf of the company.

My commission expires: April 18, 2022



[Signature]
NOTARY PUBLIC

RECEIVED
Office of Oil and Gas

FEB 27 2018
FEB 26 2018

WV Department of
Environmental Protection

95-02497



JAY-BEE OIL & GAS, INC.

February 22, 2018

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

RE: Larry 1 Well

Permitting Office:

As you know we have applied for a well permit for the Larry 1 Well in Tyler County, West Virginia. This pad is located on what we call the RT2 tract. The leg does not run beneath any U.S., State or local roads, therefore does not require courthouse review for mineral ownership.

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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Office of Oil and Gas

FEB 26 2018

WW-PN
(11-18-2015)

**Horizontal Natural Gas Well Work Permit
Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Tyler Star News

Public Notice Date: 2-7-2018

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: Jay-Bee Oil & Gas, Inc **Well Number:** Larry 1

Address: 3570 Shields Hill Rd
Cairo, WV 26337

Business Conducted: Natural gas production.

Location –

State:	<u>West Virginia</u>	County:	<u>Tyler</u>
District:	<u>Ellsworth</u>	Quadrangle:	<u>Middlebourne 7.5'</u>
UTM Coordinate NAD83 Northing:	<u>4,369,507</u>		
UTM coordinate NAD83 Easting:	<u>510,255</u>		
Watershed:	<u>Middle Island Creek</u>		

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/oog/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

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Office of Oil and Gas

FEB 26 2018

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

95-02497

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: Jay-Bee Oil & Gas, Inc

Well Number: Larry Pad (Larry-1,3,3U,4,4U Wells)

Address: 3570 Shields Hill Rd Cairo, WV 26337

Business Conducted: Natural gas production.

Location -

State: West Virginia

County: Tyler

District: Ellsworth

Quadrangle: Middlebourne 7.5'

UTM Coordinates NAD83

Northing: 4,369,507

Easting: 510,255

Watershed: Middle Island Creek

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/utm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit <http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx> to sign up.

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Submitting Comments:

Comments may be submitted online at <https://apps.dep.wv.gov/og/comments/comments.cfm>, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option. Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

JAY-BEE OIL & GAS, INC
TSN 2/7 2/14 2970

TYLER STAR NEWS

Sistersville, WV February 14th, 2018

State of West Virginia, County of Tyler:

Personally appeared before the undersigned, a Notary Public,

Brian Clutter who, being duly sworn,

states that he is the manager of the Tyler Star News, a weekly newspaper of general circulation, published at Sistersville,

County of Tyler, State of West Virginia, and that a copy of the

notice attached hereto was published for 2 successive

weeks in the Tyler Star News, beginning on the 7 day

of February, 2018 and ending on the 14 day

of February, 2018.

Brian Clutter
.....
Manager, Tyler Star News

Subscribed and sworn to before me, a Notary Public of said County, on this 14th day of February, 2018.

Mark R. Stahl
.....
Notary Public

My commission expires

Printers Fee.....



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Office of Oil and Gas

FEB 26 2018

WV Department of Environmental Protection

95-02497

WW-6AC
(1/12)

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

Date of Notice Certification: 02/23/2018

API No. 47- _____ - _____
Operator's Well No. Larry 1
Well Pad Name: Larry Pad

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>510,261.66</u>
County:	<u>Tyler</u>		Northing:	<u>4,369,523.64</u>
District:	<u>Ellsworth</u>	Public Road Access:	<u>Klondike Acres Rd</u>	
Quadrangle:	<u>Middlebourne 7.5'</u>	Generally used farm name:	<u>Jay-Bee Oil & Gas, Inc.</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 checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>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 type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

Required Attachments:

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

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Office of Oil and Gas

FEB 26 2018

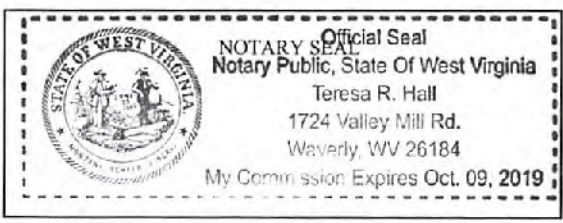
95-02497

WW-6AC
(1/12)

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 & 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 23rd day of February, 2018
Teresa R. Hall Notary Public
 My Commission Expires Oct 9th 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 deprivacvofficer@wv.gov.

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 Office of Oil and Gas
 FEB 24 2018
 WV Department of
 Environmental Protection

WW-6A
(9-13)

API NO. 47- 95-02497
OPERATOR WELL NO. Larry 1
Well Pad Name: Larry Pad

**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: 2-23-2018 **Date Permit Application Filed:** 2-23-2018

Notice of:

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

RECEIVED
Office of Oil and Gas

FEB 26 2018

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

WV Department of
Environmental Protection

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: _____

Address: _____

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

WW-6A
(8-13)

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Office of Oil and Gas

API NO. 47- 95 - 02497
OPERATOR WELL NO. Larry 1
Well Pad Name: Larry Pad

FEB 26 2018

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.

WV Department of
Environmental Protection

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, 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

WW-6A
(8-13)

API NO. 47- 95 - 02497
OPERATOR WELL NO. Larry 1
Well Pad Name: Larry Pad

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

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

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Office of Oil and Gas

FEB 26 2018

WV Department of
Environmental Protection

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

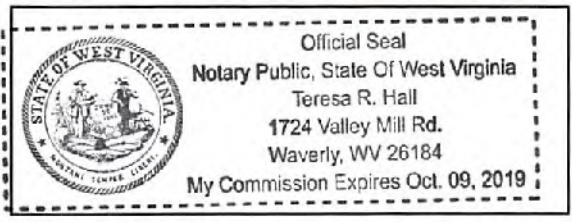
API NO. 47- 95 - 02497
OPERATOR WELL NO. Larry 1
Well Pad Name: Larry Pad

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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 23rd day of Feb., 2018.
Teresa R. Hall Notary Public
My Commission Expires Oct 9th 2019

RECEIVED
Office of Oil and Gas
FEB 26 2018
WV Department of
Environmental Protection

WW-70
Rev. 7/01

Affidavit of Personal Service

State Of West Virginia

County Of Ritchie

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A) X WSSP x
- (2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) X E&S x
- (3) Plat showing the well location on Form WW-6, and x WW-6A5 x MSDS x
- (4) Construction and Reclamation Plan on Form WW-9 X
- (5) WW6A1X WMPX WW6RW/AWX

--all with respect to operator's Well No. Larry 1,2,4 located in Ellsworth District, Tyler County, West Virginia, upon the person or organization named--
Jay-Bee Oil & Gas, Inc.

--by delivering the same in Ritchie County, State of West Virginia on the 23 day of February, 2018 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

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

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

For a partnership:

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

For a limited partnership:

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

For a corporation:

Handing it to the corporation's employee X / officer / director / attorney in fact / named Travis Yost

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 23rd day of February 2018.
My commission expires Oct 9th 2019

Teresa R. Hall
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)

Official Seal
Notary Public, State Of West Virginia
Teresa R. Hall
1724 Valley Mill Rd.
Waverly, WV 26184
My Commission Expires Oct. 09, 2019

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FEB 26 2018
WV Department of Environmental Protection

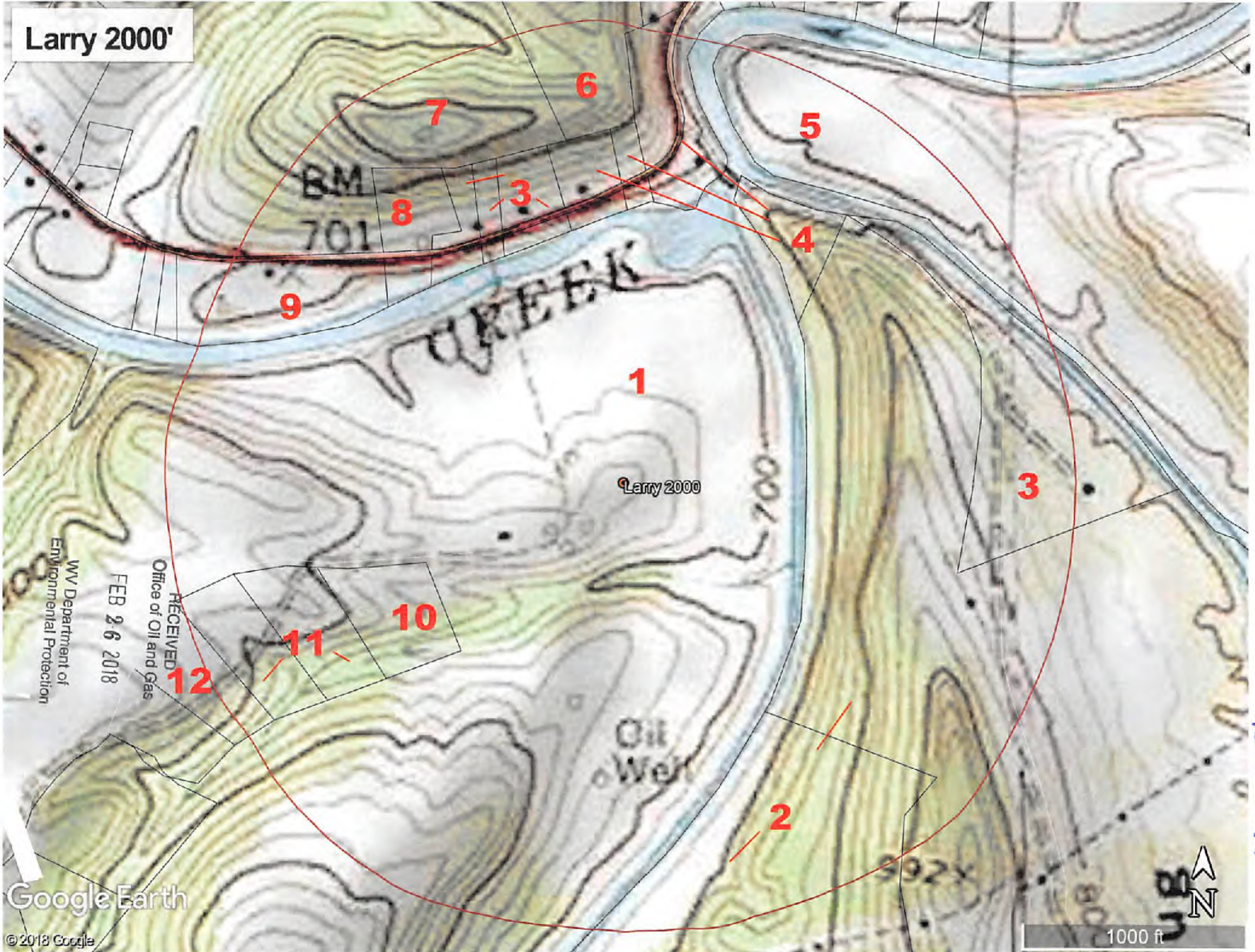
Larry WW6A Notice Recipients

<i>First</i>	<i>Surname</i>	<i>Address</i>	<i>City</i>	<i>State</i>	<i>Zip</i>
Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd.	Cairo	WV	26337
W VA Dept of Natural Resources		324 Fourth Ave	South Charleston	WV	25303
Patsy Fletcher & Christina Mitchell		320 East Ave.	Middlebourne	WV	26149
Gladys	Gregg	1664 Middle Island Rd	Middlebourne	WV	26149
John	Crumrine et al	167 Ridgecrest Rd FL#2	Wheeling	WV	26003
Patricia	Leasure	1871 Middle Island Rd	Middlebourne	WV	26149
Sara Eskew & Nancy Villers		1823 Kanawha Ter.	St. Albans	WV	25177
Grover & Bessie Baker Estate		PO BOX 432	Middlebourne	WV	26149
James & Ghislaine	Suter	1268 Middle Island Rd	Middlebourne	WV	26149
John W.	Sulser	600 Klondike Acres Rd	Middlebourne	WV	26149
Carole	Kelly et al	37121 Gilchrist St	Westland	MI	48186
Eugene & Catherine	Johnson	1498 Biglerville Rd	Gettysburg	PA	17325

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 Environmental Protection

Lbhe9-sb
 95-62497

Larry 2000'



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 WV Department of
 Environmental Protection

Google Earth

© 2018 Google

1000 ft



95-02497

Larry Topo Water Well Reference

<i>Reference</i>	<i>Map</i>	<i>Parcel</i>	<i>First</i>	<i>Surname</i>	<i>Address</i>	<i>City</i>	<i>State</i>	<i>Zip</i>
1	26	46	Jay-Bee Oil & Gas, Inc.		3570 Shields Hill Rd.	Cairo	WV	26337
2	27	2, 5	W VA Dept of Natural Resources		324 Fourth Ave	South Charleston	WV	25303
3	21	37, 38, 42	Patsy Fletcher & Christina Mitchell		320 East Ave.	Middlebourne	WV	26149
4	21	35, 36, 41	Gladys	Gregg	1664 Middle Island Rd	Middlebourne	WV	26149
5	21	43	John	Crumrine et al	167 Ridgecrest Rd FL#2	Wheeling	WV	26003
6	21	26	Patricia	Leasure	1871 Middle Island Rd	Middlebourne	WV	26149
7	20	62	Sara Eskew & Nancy Villers		1823 Kanawha Ter.	St. Albans	WV	25177
8	21	39	Grover & Bessie Baker Estate		PO BOX 432	Middlebourne	WV	26149
9	20, 21	65.1	James & Ghislaine	Suter	1268 Middle Island Rd	Middlebourne	WV	26149
10	20	110	John W.	Sulser	600 Klondike Acres Rd	Middlebourne	WV	26149
11	26	46.17, 46.18	Carole	Kelly et al	37121 Gilchrist St	Westland	MI	48186
12	26	46.23	Eugene & Catherine	Johnson	1498 Biglerville Rd	Gettysburg	PA	17325

* Refer to the numbers in red on the water well topo map

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WV Department of
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95-02497

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: 2-1-2018 **Date of Planned Entry:** 2-8-2017

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

COAL OWNER OR LESSEE

Name: _____
 Address: _____

MINERAL OWNER(s)

Name: _____
 Address: _____

*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: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.475075 x -80.880934</u>
County: <u>Tyler</u>	Public Road Access: <u>Klondike Acres Rd</u>
District: <u>Ellsworth</u>	Watershed: <u>Middle Island Creek</u>
Quadrangle: <u>Middlebourne 7.5'</u>	Generally used farm name: <u>Jay-Bee Oil & Gas, Inc.</u>

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.

RECEIVED
Office of Oil and Gas

Notice is hereby given by:

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

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

FEB 26 2018

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

95-02497

Larry Plat Notice Certifieds 2018

Name	Middle	Last	Address				
Jay-Bee Oil & Gas, Inc.			3570 Shield Hill Rd.		Cairo	WV	26337
Ridgetop Capital, LP			380 Southpointe Blvd. Plaza 2 Suite 405		Canonsburg	PA	15317
West Virginia Department of Natural Resources			1900 Kanawha Boulevard, Room 669		Charleston	WV	25305
James	C.	Rymer	P.O. Box 329		St. Marys	WV	26178
Arnold		Schulberg	39 Cedar Drive		Hurricane	WV	25526
Madellyn		Archer	318 Washington St.		St. Marys	WV	26170
Bounty Minerals LLC			777 Main Street, Suite 3400		Fort Worth	TX	76102
Robert	L.	Archer	104 Batalion Ave.		Middlebourne	WV	26149
Patricia	Rae	Fairfield	180 Oreilly Lane		Cookeville	TN	38501-8205
Debra	J.	Douglas	P.O. Box 152		Lakeside	MT	59922
Cynthia	Faye	Cornell	7032 Brittney Circle		Baxter	TN	38544
Mary	Michelle	Fletcher Hart	P. O. Box 11129		Terra Bella	CA	93270-1129
David	Alan	Fletcher	16235 NW 64th Ave., Apt. 237		Hialeah	FL	33014-7521
D.	Ralph	Thacker	20021 Thacker Dr.		Boonsboro	MD	21713-2753
J.	Maurice	Carlisle, Jr.	19700 Barnesville Rd.		Dickerson	MD	20842-9721
Ronald	G.	Mercer	2029 Lakeside Loop		Many	LA	71449-8716
Larry	W.	Mercer	1401 Harpers Ferry Road		College Station	TX	77845-8312
Keystone Buckeye Energy Holdings, LLC			1370 Washington Pike	Suite 300	Bridgeville	PA	15017
West View Land Service Corp.			156 Connie Drive		Pittsburgh	PA	15214
Johnson Energy Service, LLC			129 44th Street	Suite 1	Pittsburgh	PA	15201
Three Rivers Royalty II, LLC			9055 E. Mineral Circle	Suite 110	Centennial	CO	80112
David	L.	Maple	5151 Grandover Hwy.		Greensboro	NC	27407
Janet	Maple	Dieng	5787 Little Stone Court		North Fort Myers	FL	33990
Lisa	Maple	Guzylak	7625 Capital Avenue		Whitmore Lake	MI	48189
Douglas	E.	Maple	9046 Skyline Dr.		Wadsworth	OH	26101
S. A. Smith & C. Burke Morris Trust			c/o J. P. Morgan Chase	P.O. Box 659	Wichita Falls	TX	76307
EQT Production Company			625 Liberty Avenue	Suite 1700	Pittsburgh	PA	15222
Luella	Reba	Rabel	1016 Wetzal Tyler Ridge Road		New Martinsville	WV	26155
Joseph		Sayre, Jr.	2812 Thornton Avenue		Tampa	FL	33614
William	G.	Baker	2190 State Route 83		Beverly	OH	45715
Rita	Ann	Fortney	3241 Town Avenue		Newport Richey	FL	34659
Winifred	Rose	Jacks	1096 Road 24N		DeGraff	OH	43318
Joseph	Daniel	Marcinko	41330 Marcinko Road		Reedsville	OH	45772
John	R.	Spence, Jr.	2670 Indian Run		Marietta	OH	45750
Stephanie	Kay	Fisher	226 East 23rd Street		San Antonio	TX	76903
Kimberly	Ann	Guy	226 East 23rd Street		San Antonio	TX	76903
Otto	Anthony	Marcinko, Jr.	P.O. Box 582		Pine Bluff	WY	82082
Chris	Marie	Thach	1639 Ironwood Drive		South Bend	IN	46635
Joyce	K.	Morris	1220 Proctor Creek Road		Proctor	WV	26055
Kathryn		Knowlton	615 South Second Ave		Paden City	WV	26159
Holly		Myers	179 Thistle Court		New Martinsville	WV	26155

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WV Department of
Environmental Protection

WW-70
Rev. 7/01

Affidavit of Personal Service

State Of West Virginia

County Of Ritchie

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form WW-2(A) / WW-3(A) / WW-4(A) / WW-5(A) / WW-6(A) X WSSP x
- (2) Application on Form WW-2(B) / WW-3(B) / WW-4(B) / WW-5(B) / WW-6(B) X E&S x
- (3) Plat showing the well location on Form WW-6, and x WW-6A5 x MSDS x
- (4) Construction and Reclamation Plan on Form WW-9 X
- (5) WW6A1X WMPX WW6RW/AWX

--all with respect to operator's Well No. Larry 1,2,4 located in Ellsworth District, Tyler County, West Virginia, upon the person or organization named--

Jay-Bee Oil & Gas, Inc.

--by delivering the same in Ritchie County, State of West Virginia on the 23 day of February, 2018 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

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

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

For a partnership:

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

For a limited partnership:

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

For a corporation:

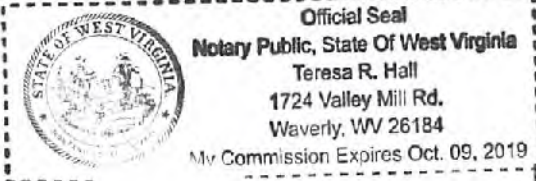
[X] Handing it to the corporation's employee X / officer / director / attorney in fact / named Travis Yost

[Signature]
(Signature of person executing service)

Taken, subscribed and sworn before me this 23rd day of February, 2018.
My commission expires Oct 9th 2019

Teresa R. Hall
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



RECEIVED
Office of Oil and Gas
FEB 26 2018
WV Department of
Environmental Protection

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

February 22, 2018

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

RE: Larry Pad 404 Permit

Permitting Office:

As you know we have applied for a well permit for the Larry Pad in Tyler County, West Virginia. There are no requirements for any Army corps permits for this location. There are also no requirements for any WVDNR, or Public Land and Stream permits for this location. We have submitted a plan to US Fish and Wildlife for authorization to harvest the minimal tree movement on this location as well.

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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Office of Oil and Gas

FEB 26 2018

WV Department of
Environmental Protection



95-02497

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

Reissued February 2, 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 Larry Pad, Tyler County
Larry 1 Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0200 issued to Jay-Bee Oil & Gas, Inc. for access to the State Road for a well site located off of Tyler County Route 46 SLS.

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

Very Truly Yours,

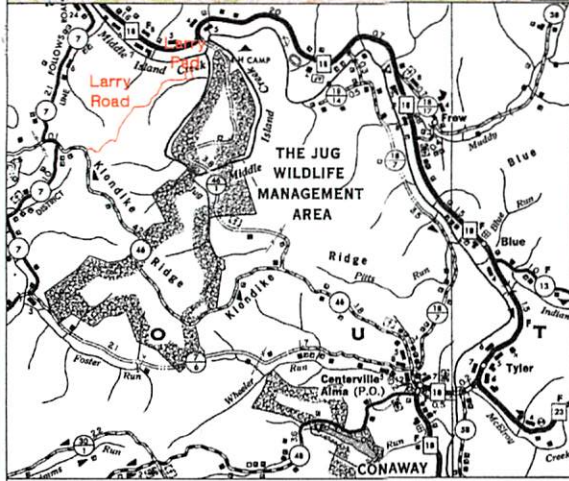
Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

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

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WV Department of
Environmental Protection



Larry PAD & ROAD PLAN MODIFICATION

Ellsworth District, Tyler County, WV
Prepared for JAY BEE OIL & GAS

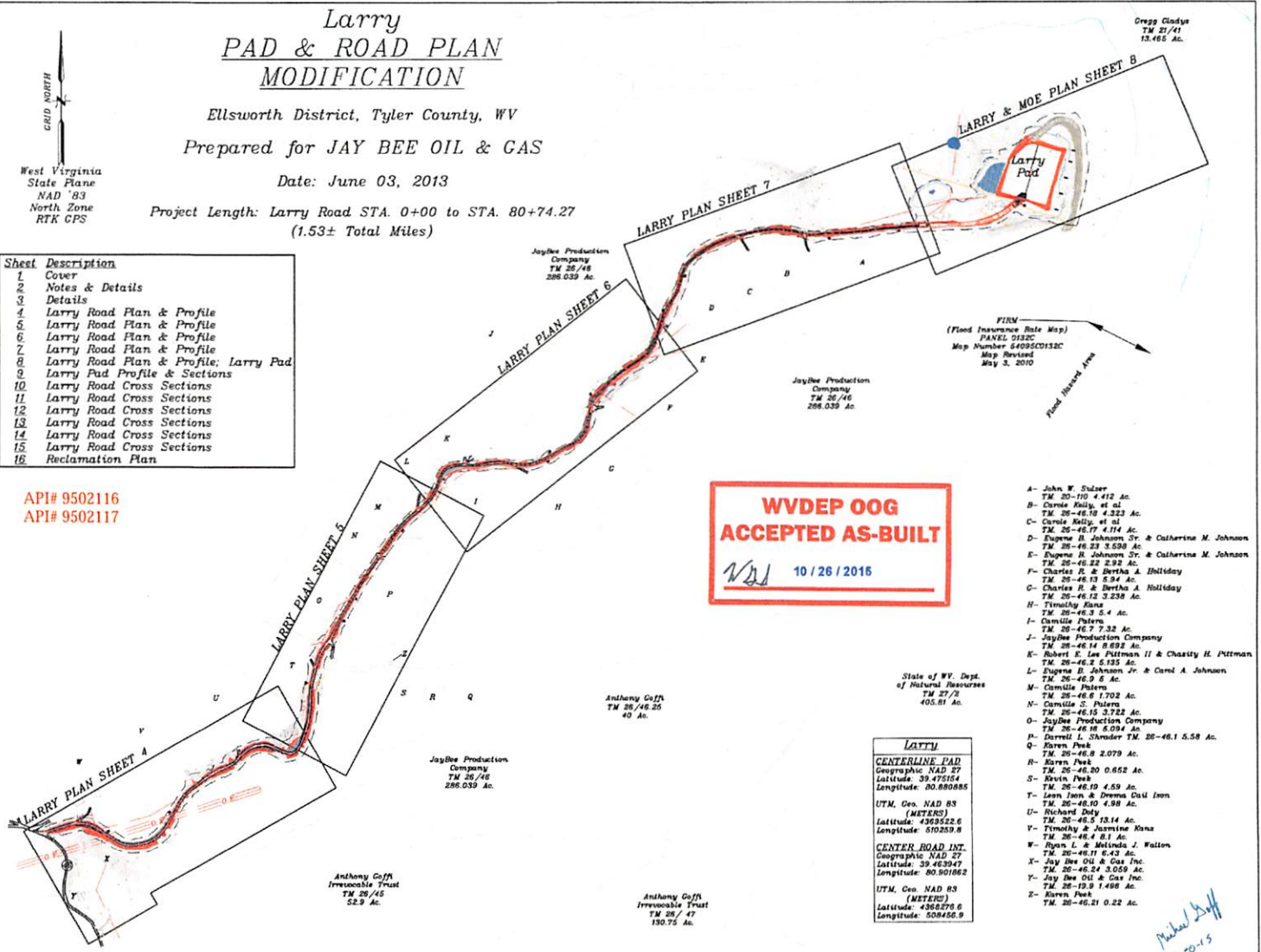
Date: June 03, 2013

Project Length: Larry Road STA. 0+00 to STA. 80+74.27
(1.53± Total Miles)

West Virginia
State Plane
NAD '83
North Zone
RTK GPS

Sheet	Description
1	Cover
2	Notes & Details
3	Details
4	Larry Road Plan & Profile
5	Larry Road Plan & Profile
6	Larry Road Plan & Profile
7	Larry Road Plan & Profile
8	Larry Road Plan & Profile; Larry Pad
9	Larry Pad Profile & Sections
10	Larry Road Cross Sections
11	Larry Road Cross Sections
12	Larry Road Cross Sections
13	Larry Road Cross Sections
14	Larry Road Cross Sections
15	Larry Road Cross Sections
16	Reclamation Plan

API# 9502116
API# 9502117



**WVDEP OOG
ACCEPTED AS-BUILT**
10 / 26 / 2015

Revisions:
Adjust Well Positions 09-17-15

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

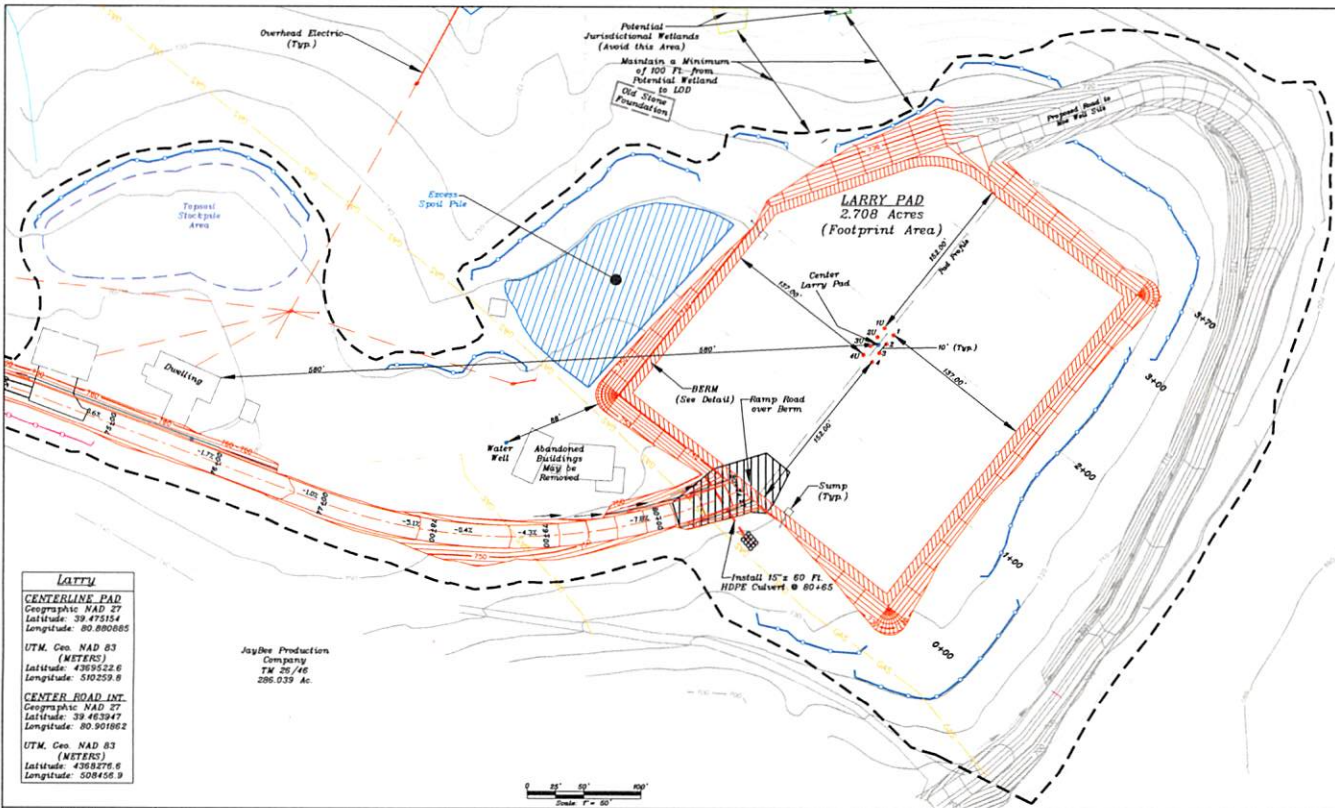
Environmental Protection
Office of Oil and Gas
RECEIVED
FEB 26 2018
Office of Oil and Gas

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 drilling pad.
Dennis L. Fisher RPE 8884
Date: 09-17-2015

DLF.
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Jackson Surveying Inc.
COVER
Sheet 1 of 16
Larry Pad & Road
Modification
677 W. Main St.
Clarksburg, Wv 26301
504-625-5651

05-02497



LARRY

CENTERLINE PAD
Geographic NAD 27
Latitude: 39.413154
Longitude: 80.880685

UTM, Geo. NAD 83 (METERS)
Latitude: 4369522.6
Longitude: 502259.8

CENTER ROAD INT.
Geographic NAD 27
Latitude: 39.463247
Longitude: 80.901882

UTM, Geo. NAD 83 (METERS)
Latitude: 4369476.8
Longitude: 508456.9

JayDee Production Company
TM 25/46
286.039 Ac.

JayDee Production Company
TM 25/46
286.039 Ac.



Foot Virginia State Plane
NAD 83
North Zone
RTS CPT

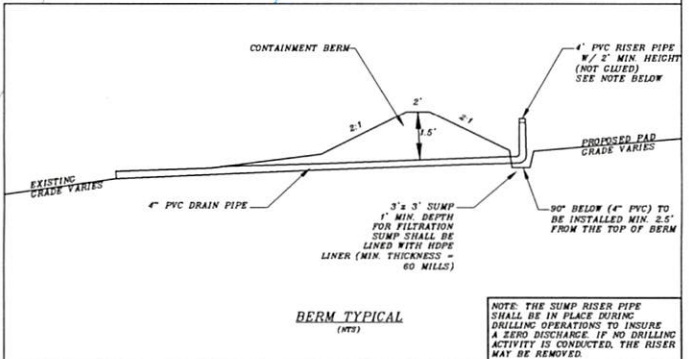
- LEGEND**
- Existing Grade
 - Proposed Grade
 - Centerline
 - Reinforced
 - Filler Fences
 - Super 516 Fences
 - Property Line
 - Ditch
 - Limits of Disturbance

Craig Gladys
TM 21/41
13.465 Ac.

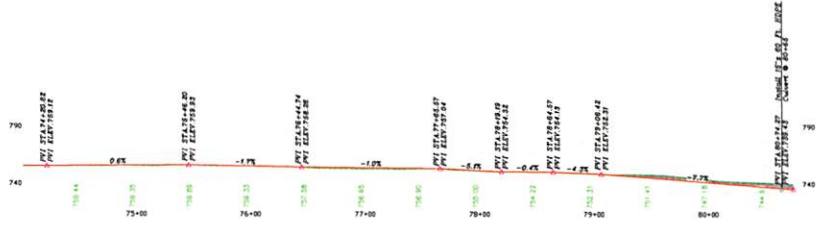
FIRM
(Flood Insurance Rate Map)
PANEL 0132C
Map Number 54035CD132C
Map Revised May 3, 2010

FLOOD HAZARD AREA

NOTE: Jurisdictional Water & Wetland Determination from Heritage Technical Associates Report.



- Legend**
- Existing Grade
 - Proposed Grade
 - Clay
 - Fill



WVDEP OOG ACCEPTED AS-BUILT

10/26/2016



Jackson Surveying Inc.
PAD PLAN & PROFILE
Sheet 8 of 16
Larry Pad & Road
Modification

877 W. Main St.
Charlottesville, WV 25301
304-623-5851

95-02497