

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-095-02315 County Tyler District McElroy-Elsworth
Quad Shirley 7.5'-Middlebourne 7.5' Pad Name Larry Field/Pool Name Larry
Farm name Jay-Bee Oil & Gas, Inc. Well Number Larry 2
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.
Address 3570 Shields Hill Rd. City Cairo State WV Zip 26337

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,369,517.7 Easting 510,260.0
Landing Point of Curve Northing 4,369,244.9 Easting 510,362.5
Bottom Hole Northing 4,367,208.9 Easting 511,159.2

Elevation (ft) 738.9' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Synthetic OBM

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Date permit issued 1-14-2016 Date drilling commenced 6-16-2016 Date drilling ceased 11-1-2016
Date completion activities began 2/1/2017 Date completion activities ceased 2/9/2017
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 74.6 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
JOB
6/18/2020

API 47-095 - 02315 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 2

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	17"	16"	30'	New	J-55 40#		Y
Surface	15"	11 3/4"	313'	New	J55 32#	50'	Y
Coal							
Intermediate 1	11"	8 5/8"	2,003'	New	J55 24#	1,500'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	14,082'	New	P110- 20#		Y
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	170	15.6	1.2	204	CTS	8
Coal							
Intermediate 1	Class A	715	15.6	1.2	858	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	2,135	14.5	1.17	2,506	300' from surface	8
Tubing							

Drillers TD (ft) 14,099' Loggers TD (ft) 14,099'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) 5420

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Spiral centralizer every joint from TD back to start of
 90 degree.
 90 - 70 degree every second joint.
 70 degree - KOP every third joint.
 KOP - Surface centralizer placed every 500'.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 095 - 02315

Farm name Jay-Bee Oil & Gas, Inc.

Well number Larry 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2-1-17	14025	13912	72	Marcellus
2	2-2-17	13852	13671	72	Marcellus
3	2-2-17	13623	13448	72	Marcellus
4	2-3-17	13402	13267	72	Marcellus
5	2-3-17	13232	13078	72	Marcellus
6	2-3-17	13032	12868	72	Marcellus
7	2-3-17	12835	12684	72	Marcellus
8	2-4-17	12640	12514	72	Marcellus
9	2-4-17	12464	12300	72	Marcellus
10	2-4-17	12266	12072	72	Marcellus
11	2-4-17	12033	11866	72	Marcellus
12	2-4-17	11820	11668	72	Marcellus
13	2-5-17	11632	11489	72	Marcellus
14	2-5-17	11448	11286	72	Marcellus
15	2-5-17	11250	11104	72	Marcellus
16	2-5-17	11044	10897	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	2-1-17	66	7949	8546	3870	180000	5030	N/A
2	2-2-17	71	8132	7001	4950	172500	4182	N/A
3	2-2-17	70	7463	6676	4644	181800	2624	N/A
4	2-3-17	69	7717	6799	4571	180000	3373	N/A
5	2-3-17	65	6662	6370	4566	182000	5215	N/A
6	2-3-17	68	6650	6302	4038	180000	4963	N/A
7	2-3-17	70	6848	6979	4991	180000	5695	N/A
8	2-4-17	69	6838	6529	5029	180000	4725	N/A
9	2-4-17	69	6798	6389	4875	180000	4274	N/A
10	2-4-17	69	6723	6355	4495	180000	5320	N/A
11	2-4-17	68	6977	6407	4306	180000	4998	N/A
12	2-4-17	69	6710	6463	4646	180000	4763	N/A
13	2-5-17	70	6719	6723	4358	180000	4737	N/A
14	2-5-17	69	6756	6454	5095	180000	4664	N/A
15	2-5-17	69	6725	6197	4735	180000	4879	N/A
16	2-5-17	70	6839	6685	4806	180000	5639	N/A

Please insert additional pages as applicable.

API 47-095 - 02315

Farm name Jay-Bee Oil & Gas, Inc.

Well number Larry 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	2-6-17	10846	10688	72	Marcellus
18	2-6-17	10633	10496	72	Marcellus
19	2-6-17	10448	10295	72	Marcellus
20	2-6-17	10251	10086	72	Marcellus
21	2-6-17	10038	9884	72	Marcellus
22	2-6-17	9846	9688	72	Marcellus
23	2-7-17	9639	9497	72	Marcellus
24	2-7-17	9446	9293	72	Marcellus
25	2-7-17	9258	9070	72	Marcellus
26	2-7-17	9030	8895	72	Marcellus
27	2-7-17	8856	8696	72	Marcellus
28	2-8-17	8656	8488	72	Marcellus
29	2-8-17	8444	8280	72	Marcellus
30	2-8-17	8244	8066	72	Marcellus
31	2-8-17	8026	7894	72	Marcellus
32	2-8-17	7842	7659	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
17	2-6-17	70	6806	6856	4770	180000	4786	N/A
18	2-6-17	69	6649	6047	5104	180000	4844	N/A
19	2-6-17	68	6443	6530	4717	180000	4582	N/A
20	2-6-17	68	6363	6398	4853	180000	4849	N/A
21	2-6-17	68	6534	6462	4777	180000	4670	N/A
22	2-6-17	69	6293	6497	4635	180000	4696	N/A
23	2-7-17	70	6434	6693	4678	180000	4457	N/A
24	2-7-17	66	6390	6814	4273	180000	5462	N/A
25	2-7-17	70	6476	7264	4700	180000	4614	N/A
26	2-7-17	70	6505	6845	4581	180000	3562	N/A
27	2-7-17	70	6542	7556	4425	180000	4364	N/A
28	2-8-17	70	6665	7036	4490	180000	4432	N/A
29	2-8-17	69	6574	6684	4747	180000	4285	N/A
30	2-8-17	68	6217	6784	4395	180000	4321	N/A
31	2-8-17	70	6357	7192	4550	180000	4128	N/A
32	2-8-17	70	6093	6979	4673	180000	4392	N/A

Please insert additional pages as applicable.

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	2-8-17	7622	7498	72	Marcellus
34	2-9-17	7458	7281	72	Marcellus
35	2-9-17	7236	7072	72	Marcellus
36	2-9-17	7003	6788	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
33	2-8-17	69	6523	6276	4737	180000	5176	N/A
34	2-9-17	70	7074	6221	4833	180000	4536	N/A
35	2-9-17	69	6398	6204	4992	180000	5121	N/A
36	2-9-17	69	5997	6024	4907	180000	4141	N/A

Please insert additional pages as applicable.

API 47- 095 - 02315 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 2

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6,201'	TVD 14,099' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2200 psi Bottom Hole ----- psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 7500 mcfpd Oil 70 bpd NGL n/a bpd Water 350 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
See Attached.	0		0		

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Please insert additional pages as applicable.

Drilling Contractor Nomac
Address 3400 South Radio Road City El Reno State OK Zip 73036

Logging Company Gyrodata
Address 23000 Northwest Lake Dr City Houston State TX Zip 77095

Cementing Company Baker Hughes
Address 717 17th Street Suite 2000 City Denver State CO Zip 80202

Stimulating Company Producers Service Corporation
Address 107 South Graham St. City Zanesville State OH Zip 43822

Please insert additional pages as applicable.

Completed by Kim Swiger Telephone 304-628-3111
Signature *Kim Swiger* Title Permitting Agent Date 5/19/2020

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: Jay-Bee Oil & Gas, Inc.
API No: 47-095-02315 County: Tyler
District: McElroy Well No: Larry 2
Farm Name: Jay-Bee Oil & Gas, Inc.

Discharge Date/s From:(MMDDYY) _____ To: (MMDDYY) _____
Discharge Times. From: n/a To: n/a

Total Volume to be Disposed from this facility (gallons): NO DISCHARGE

Disposal Option(s) Utilized (write volumes in gallons):

- (1) Land Application: _____ (Include a topographical map of the Area.)
(2) UIC: _____ Permit No. _____
(3) Offsite Disposal: _____ Site Location: _____
(4) Reuse: _____ Alternate Permit Number: _____
(5) Centralized Facility: _____ Permit No. _____
(6) Other method: _____ (Include an explanation)

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Follow Instructions below to determine your treatment category:

Optional Pretreatment test: n/a Cl- mg/l n/a DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) N If yes, who? n/a and place a four (4) on line 7.
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) N If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) n/a If yes, go to line 4
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) n/a If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) n/a If yes, go to line 6
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l?(Y/N) n/a If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. n/a is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: n/a

Name of Principal Exec. Officer: Randy Broda

Title of Officer: President

Date Completed: 5/19/2020

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Signature of a Principal Exec. Officer or Authorized agent.

OIL AND GAS RECLAMATION NOTICE

TO:

Name _____

Address _____

Name _____

Address _____

Name _____

Address _____

Pursuant to West Virginia Code 22-7, notice is hereby given that the undersigned well operator is commencing the reclamation of the surface disturbance caused by well work required by West Virginia Code 22-6-30 on the tract of land as follows:

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API Permit No. 47- 095 - 02315 _____;

Acreage _____;

Watershed Middle Island Creek _____;

District McElroy _____;

County Tyler _____;

Public Road Access Klondike Road _____;

Generally used farm name Jay-Bee Oil & Gas, Inc. _____.

This tract of land was utilized in connection with the well work authorized by the permit listed above issued by the Office of Oil and Gas of the West Virginia Department of Environmental Protection.

Any claim for oil and gas production damage compensation from the undersigned must be made within 2 years of the publication of this notice.

Well Operator Jay-Bee Oil & Gas, Inc. _____

Address 3570 Shields Hill Rd. _____

Cairo, WV 26337 _____

Telephone 304-628-3111 _____

Lithology

Larry 2 47-095-02315

FORMATION	TOP	BOTTOM
MISC. RED ROCK & SHALES	0	1650
LIME	1650	1750
INJUN	1750	1867
SHALE	1867	2214
GORDON STRAY	2214	2234
SHALE	2234	2430
GORDON	2430	2460
SHALE	2460	2739
BAYARD	2739	2748
SHALE	2748	3077
WARREN	3077	3175
SHALE	3175	3411
BALLTOWN	3411	3574
SHALE	3574	4012
2ND RILEY	4012	4120
SHALE	4120	4271
3RD RILEY	4271	4312
SHALE	4312	4369
BENSON	4369	4372
SHALE	4372	4614
ALEXANDER	4614	4785
SHALE	4785	5030
ELK	5030	5078
SHALE	5078	5240
HAMILTON	5240	5414
SHALE	5414	6070
UPPER MARCELLUS	6070	6125
PARCELL LIME	6125	6160
SHALE	6160	6175
LOWER MARCELLUS	6175	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/1/2017
Job End Date:	2/9/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02315-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	LARRY 2
Latitude:	39.47518900
Longitude:	-80.88071000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,201
Total Base Water Volume (gal):	10,310,034
Total Base Non Water Volume:	0



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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00000	92.54343	None
Sand (Proppant)	Producers Service Corp	Proppant	Silica Substrate	14808-60-7	100.00000	6.96389	None
15% IC Acid	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.05417	None
PRO GEL 4.0L	Producers Service Corp	Gel	Guar Gum Blend	9000-30-0	100.00000	0.03261	None
FRA-408	Producers Service Corp	Friction Reducer	Petroleum Naphtha	64742-47-8	30.00000	0.01703	None
SCALECLEAR 112	Producers Service Corp	Scale Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00986	None
BIOCLEAR 1430	Producers Service Corp	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00347	None

			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00087	None
			Dimethylamine	68439-70-3	0.50000	0.00009	None
PRO BREAK 4	Producers Service Corp	Gel Breaker					
			Surcose	57-50-1	46.00000	0.00007	None
			Ethylene Glycol	107-21-1	14.00000	0.00002	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00087	
			Dimethylamine	68439-70-3	0.50000	0.00009	
			Ethylene Glycol	107-21-1	14.00000	0.00002	

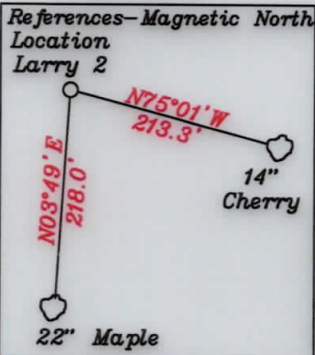
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

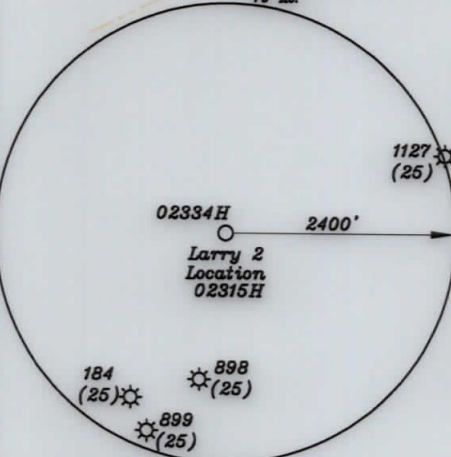
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LATITUDE 39-30-00 N (TH)
LATITUDE 39-27-30 N (BH)

- A-Peak TM. 26-46.8 2.079 Ac.
- B-Peak TM. 26-46.20 0.652 Ac.
- C-Peak TM. 26-46.19 4.59 Ac.
- D-Peak 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-Holliday TM. 26-46.13 5.94 Ac.
- K-Holliday TM. 26-46.12 3.238 Ac.
- L-Kanz TM. 26-46.3 5.4 Ac.
- M-Patera TM. 26-46.7 7.32 Ac. TM 26/19.11
- N-JayBee TM. 26-46.14 8.692 Ac. 9.4 Ac.
- O-Pittman TM. 26-46.2 5.135 Ac.
- P-Johnson TM. 26-46.9 5 Ac.
- Q-Patera TM. 26-46.6 1.702 Ac.
- R-Patera 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.

NORTH



NUMBER	DIRECTION	DISTANCE
L1	N69°15' E	988'
L2	N16°28' E	2,478'
L3	S19°38' E	956'

- 500' from Bore Path
- AsDrilled Path
- Permitted Path

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. Well bore path and surface hole location are over 400' from all lease lines.
3. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
4. No water wells were found within 250' of the well location. A house was found S64°59'W 580' from the center of the well pad. A wetlands is located 103' from LOD.

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

Top Hole	UTM NAD 83(Meters)— 4369517.8 N, 510260.1 E
Landing Point	UTM NAD 83(Meters)— 4369244.9 N, 510362.5 E
Bottom Hole	UTM NAD 83(Meters)— 4367208.9 N, 511159.2 E
Top Hole	UTM NAD 83(Meters)— 4369517.8 N, 510260.0 E
Bottom Hole	UTM NAD 83(Meters)— 4367189.5 N, 511175.5 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 March 05, 2020
OPERATOR'S WELL NO. Larry 2
API WELL NO. AsDrilled

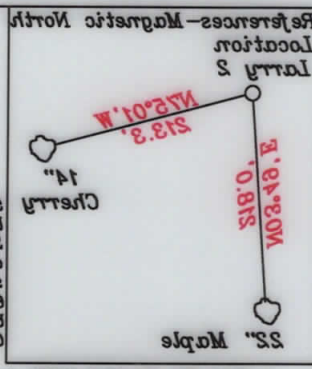
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 095 PERMIT 02315H
(IF "GAS") PRODUCTION DEEP SHALLOW X

LOCATION: ELEVATION 738.9' WATER SHED Middle Island Creek
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 CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AsDrilled

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD=6,201' TMD=14,099'
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



LATITUDE 39-27-30 N (BH)
 LATITUDE 39-30-00 N (TH)

Bottom Hole 10,437'
 Top Hole 1,611'

Bottom Hole 1,443'
 Top Hole 2,038'

CONCLUDE 80-20-00 N (BH)
 CONCLUDE 80-25-30 N (TH)

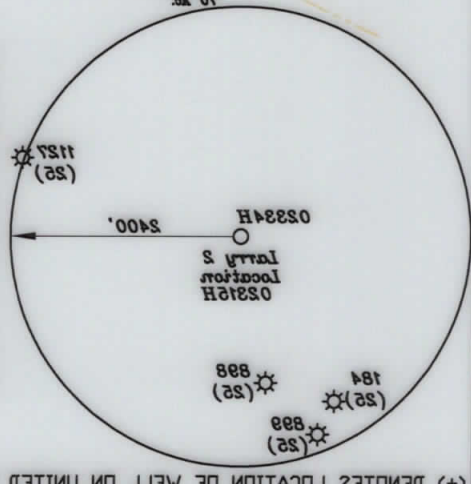
WADNR
 TM 27,28
 52 Ac.

Bottom Hole	UTM NAD 83 (Meters) - 4367188.6 N, 511725.6 E
Top Hole	UTM NAD 83 (Meters) - 4368517.8 N, 510280.0 E
Bottom Hole	UTM NAD 83 (Meters) - 4367208.9 N, 51158.3 E
Landing Point	UTM NAD 83 (Meters) - 4368244.9 N, 510382.5 E
Top Hole	UTM NAD 83 (Meters) - 4368517.8 N, 510280.1 E

NUMBER	DIRECTION	DISTANCE
L1	N62°15' E	388'
L2	N62°28' E	2,478'
L3	S12°38' E	388'

--- 500' from Bore Path
 --- Drilled Path
 --- Permitted Path

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. Well bore path and surface hole location are over 400' from all lease lines.
 3. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
 4. No water wells were found within 250' of the well location. A horse was found 264.29' W 580' from the center of the well pad. A wetland is located 103' from LOD.



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



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 Jackson
 P.2. 708 R.P.E.

FILE NO.	
DRAWING NO.	1
SCALE	1" = 2000'
MINIMUM DEGREE OF ACCURACY	1 in 200
PROVEN SOURCE OF ELEVATION	GPS
submeter unit	

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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF 'GAS' PRODUCTION X STORAGE DEEP SHALLOW X)
 LOCATION: ELEVATION 7389' WATER SHED Middle Island Creek
 DISTRICT Ellsworth
 QUADRANGLE Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)
 SURFACE OWNER Jay-Bee Oil & Gas, Inc.
 OIL & GAS ROYALTY OWNER Ridgeway Capital LP and Ridgeway Capital II LP LEASE ACREAGE 286.03 ac. ACREAGE 286.03 ac.
 LEASE NO. RTS
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD=6,501' TMD=14,093'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 220 Route 22 E, Union, WV 26083
 ADDRESS 3270 Shields Hill Rd., Cairo, WV 26837

DATE March 05, 2020
 OPERATOR'S WELL NO. Larry S
 API WELL NO. As Drilled
 STATE COUNTY 47 092 02315H PERMIT