

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

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Office of Oil and Gas

JUN 12 2020

API 47-095-02497-00 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Larry Pad Field/Pool Name _____
Farm name Jay-Bee Oil & Gas, Inc. Well Number Larry 1
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.
Address 3570 Shields Hill Road City Cairo State WV Zip 26337

WV Department of
Environmental Protection

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4369523.65 Easting 510261.54
Landing Point of Curve Northing 43695669.84 Easting 510524.56
Bottom Hole Northing 4367212.40 Easting 511394.25

Elevation (ft) 738.76' 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)
Anco Synthetic Based Mud System (oil base)

Date permit issued 5/29/2018 Date drilling commenced 7/17/2018 Date drilling ceased 8/5/2018
Date completion activities began 12/13/2018 Date completion activities ceased 1/9/2019
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 60-90' 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:
Jes
6/18/2020

API 47-095 - 02497-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 1

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	30"	26"	30'	New			Y
Surface	17.5"	13 3/8"	328'	New	H40-48#	46'-294'	Y
Coal							
Intermediate 1	11"	8 5/8"	2,090'	New	J55-24#	219'-2,015'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	15,221'	New	P110-23#		Y
Tubing							
Packer type and depth set							RECEIVED Office of Oil and Gas

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Comment Details _____

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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	315	15.6	1.196	376	CTS	8
Coal							
Intermediate 1	Class A	545	15.6	1.188	647	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	2,229	14.5	1.17	2,618	1000' FS	8
Tubing							

Drillers TD (ft) 15,238' Loggers TD (ft) 15,238'
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

Kick off depth (ft) 5,713'

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 Steel body centralizer placed every 90' in lateral section.
90 degree

90-70 degree every second joint

70 degree - KOP every third joint

KOP - Surface centralizers 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 - 02497-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/13/18	15075	14984	97	Marcellus
2	12/14/18	14873	14793	72	Marcellus
3	12/14/18	14768	14606	72	Marcellus
4	12/15/18	14562	14412	72	Marcellus
5	12/15/18	14362	14214	72	Marcellus
6	12/16/18	14168	14026	72	Marcellus
7	12/17/18	13970	13800	72	Marcellus
8	12/17/18	13754	13628	72	Marcellus
9	12/18/18	13586	13438	72	Marcellus
10	12/18/18	13386	13212	72	Marcellus
11	12/19/18	13174	13034	72	Marcellus
12	12/19/18	12990	12876	72	Marcellus
13	12/19/18	12826	12652	72	Marcellus
14	12/20/18	12610	12464	72	Marcellus
15	12/20/18	12424	12252	72	Marcellus
16	12/20/18	12216	12080	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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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)
1	12/13/18							n/a
2	12/14/18	72.7	8374	6383	8374	249740	8363	n/a
3	12/14/18	75.1	7991	6311	3709	252080	7347	n/a
4	12/15/18	81.1	7309	6466	4823	247800	6921	n/a
5	12/15/18	79.2	7726	6829	4210	250700	6843	n/a
6	12/16/18	79.1	7468	5983	4559	247390	7046	n/a
7	12/17/18	79.8	7281	6475	3654	249480	7196	n/a
8	12/17/18	79.6	7122	6917	4819	246440	7317	n/a
9	12/18/18	79.6	7319	6228	4945	251840	7497	n/a
10	12/18/18	80	7059	6411	5008	248780	6786	n/a
11	12/19/18	79.6	7307	6441	4526	253280	6879	n/a
12	12/19/18	80.1	6935	6870	5357	252080	6449	n/a
13	12/19/18	80	7197	6717	4738	243970	6571	n/a
14	12/20/18	80.2	7262	6767	4141	246100	7141	n/a
15	12/20/18	73.2	7487	6446	3978	250360	6560	n/a
16	12/20/18	79.9	7163	6510	4845	248800	6668	n/a

Please insert additional pages as applicable.

API 47- 095 - 02497-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	12/21/18	12044	11870	72	Marcellus
18	12/21/18	11832	11672	72	Marcellus
19	12/21/18	11628	11458	72	Marcellus
20	12/22/18	11404	11268	72	Marcellus
21	12/22/18	11220	11062	72	Marcellus
22	12/22/18	11020	10880	72	Marcellus
23	12/23/18	10828	10670	72	Marcellus
24	1/2/19	10634	10476	72	Marcellus
25	1/2/19	10440	10298	72	Marcellus
26	1/3/19	10260	10068	72	Marcellus
27	1/3/19	10030	9876	72	Marcellus
28	1/3/19	9840	9714	72	Marcellus
29	1/4/19	9674	9528	72	Marcellus
30	1/5/19	9484	9306	72	Marcellus
31	1/5/19	9242	9082	72	Marcellus
32	1/6/19	9032	8898	72	Marcellus

Please insert additional pages as applicable.

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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)
17	12/21/18	74.9	6870	6515	5202	241440	7160	n/a
18	12/21/18	74.7	6721	6061	5130	245540	7019	n/a
19	12/21/18	74.7	7111	6012	4895	244350	6868	n/a
20	12/22/18	74.9	6886	6447	4798	248430	6854	n/a
21	12/22/18	75.1	6710	6212	4255	247530	6737	n/a
22	12/22/18	74.8	6804	6240	3963	248770	6537	n/a
23	12/23/18	74.3	6990	6778	4795	240540	6326	n/a
24	1/2/19	74.2	6570	6217	5112	253200	6806	n/a
25	1/2/19	74.6	6636	7076	4240	257600	7776	n/a
26	1/3/19	74	6655	6801	4046	260639	7061	n/a
27	1/3/19	74.5	6626	6825	4871	250530	6882	n/a
28	1/3/19	74.8	6305	6582	4423	254850	7220	n/a
29	1/4/19	74.5	6394	7040	5116	247430	6581	n/a
30	1/5/19	72.9	6414	7640	4745	248440	7275	n/a
31	1/5/19	74.1	6204	7014	4146	243940	6384	n/a
32	1/6/19	74.7	6417	7433	4262	228240	6154	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	1/6/19	8856	8708	72	Marcellus
34	1/6/19	8662	8500	72	Marcellus
35	1/6/19	8450	8270	72	Marcellus
36	1/7/19	8238	8106	72	Marcellus
37	1/7/19	8046	7888	72	Marcellus
38	1/8/19	7844	7718	72	Marcellus
39	1/8/19	7664	7522	72	Marcellus
40	1/8/19	7474	7320	72	Marcellus
41	1/9/19	7280	7124	72	Marcellus
42	1/9/19	7080	6980	72	Marcellus
43	1/9/19	6930	6764	72	Marcellus

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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)
33	1/6/19	74.8	6115	6462	5098	250270	6381	n/a
34	1/6/19	75	6261	6257	4601	248340	6901	n/a
35	1/6/19	74.2	6272	6420	4994	249010	6630	n/a
36	1/7/19	74.8	6398	6621	5559	249240	6565	n/a
37	1/7/19	74.7	6381	7282	4565	251990	7225	n/a
38	1/8/19	74.2	6345	7301	4196	252130	6936	n/a
39	1/8/19	74.4	6122	6212	4995	249620	6360	n/a
40	1/8/19	74.6	5974	6670	5206	250090	6535	n/a
41	1/9/19	73.3	6338	6636	4507	181980	5260	n/a
42	1/9/19	74.3	6333	7606	4503	229480	6117	n/a
43	1/9/19	74.4	6177	6611	3957	236970	5937	n/a

Please insert additional pages as applicable.

API 47- 095 - 02497-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 1

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6,222'	TVD 15,238' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2450 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 8400 mcfpd Oil 336 bpd NGL n/a bpd Water 840 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)
Hamilton	0	5247	0		
Upper Marcellus	5247	6002			
Parcell Lime	6002	6024			
Shale	6024	6028			
Lower Marcellus	6028	6160			
Onondaga	6160	6206			

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Please insert additional pages as applicable.

Drilling Contractor Patterson UTI
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Stratagraph NE Inc.
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company BJ Services
Address 3415 Millennium Boulevard City Massillon State OH Zip 44646

Stimulating Company Frac Tech
Address 6000 Town Center Boulevard, Suite 120 City Cannonsburg State PA Zip 15317

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: 47-095-02497 County: Tyler
District: Ellsworth Well No: Larry
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)

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

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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:

API Permit No. 47- 095 - 02497 _____;

Acreage _____;

Watershed Middle Island Creek _____;

District Ellsworth _____;

County Tyler _____;

Public Road Access Klondike Road _____;

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

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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 Road _____

Cairo, WV 26337 _____

Telephone 304-628-3111 _____



Jay-Bee Oil & Gas

Tyler County

Larry Pad

Larry 1

Wellbore #1

Design: Wellbore #1

QES Survey Report

04 August, 2018

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WV Department of
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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/13/2018
Job End Date:	1/10/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02497-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Larry 1
Latitude:	39.47524200
Longitude:	-80.88069300
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,900
Total Base Water Volume (gal):	12,736,206
Total Base Non Water Volume:	87,261

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	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	90.31409	
Other Chemical (s)	Listed Above	See Trade Name (s) List	Water	7732-18-5	55.00000	0.01409	



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			Water	7732-18-5	85.00000	0.44631	
			Water	7732-18-5	55.00000	0.01386	
			Water	7732-18-5	50.00000	0.04137	
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below			
SPB-1	FTSI	Breaker		Listed Below			
FRW-1450	FTSI	Friction Reducer		Listed Below			
				Listed Below			
30/50 White	FTSI	Proppant		Listed Below			
				Listed Below			
100 Mesh Sand	FTSI	Proppant		Listed Below			
				Listed Below			
ICI-3240	FTSI	Biocide		Listed Below			
				Listed Below			
20/40 White	FTSI	Proppant		Listed Below			
				Listed Below			

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HVG-1 4.0	FTSI	Water gelling agent		Listed Below				
40/70 White	FTSI	Proppant		Listed Below				
10.1%-15.0% HCL	FTSI	Acid		Listed Below				
CS-1000 SI	FTSI	Scale Inhibitor		Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.								
			Silica, Quartz	14808-60-7	100.00000	4.12488		
			Silica, Quartz	14808-60-7	100.00000	2.80544		
			Silica, Quartz	14808-60-7	100.00000	1.41004		
			Silica, Quartz	14808-60-7	100.00000	0.67059		
			Hydrogen Chloride	7647-01-0	15.00000	0.07876		
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.02482		
			Cationic Polyacrylamide	9003-05-8	30.00000	0.02482		
			Phosphonic Acid, {Nitrilotris (methylene)} Tris	6419-19-8	35.00000	0.00882		
			Guar gum	9000-30-0	55.00000	0.00668		
			Petroleum Distillate	64742-47-8	55.00000	0.00668		
			Raffinates, Sorption Process	64741-85-1	55.00000	0.00668		
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4	24.00000	0.00615		
			Sodium Hydroxide	1310-73-2	23.00000	0.00589		

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	Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00414	
	Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00319	
	Phosphonic Acid, ((Dimethylamino) Methylene) Bis-	29712-30-9	5.00000	0.00126	
	Methanol	67-56-1	90.00000	0.00083	
	Suspending Agent	1302-78-9	5.00000	0.00061	
	Phosphorous Acid	10294-56-1	2.00000	0.00050	
	Quartz	14808-60-7	4.00000	0.00049	
	Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00024	
	Orthophosphoric acid	7664-38-2	0.75000	0.00019	
	Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00009	
	Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00009	
	Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00009	
	Propargyl Alcohol	107-19-7	5.00000	0.00005	
	Sodium Metaborate	7775-19-1	1.40000	0.00005	
	N-olefins	Proprietary	3.00000	0.00003	
	Hydrochloric acid	7647-01-0	0.00500	0.00000	

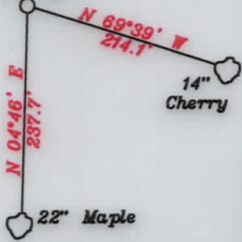
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* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 *** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line
 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)

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

Bottom Hole 9,665'

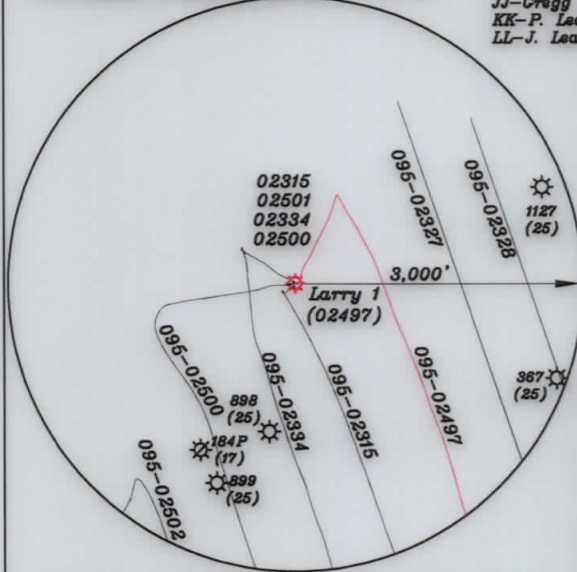
References:
 Larry 1



NUMBER	DIRECTION	DISTANCE
L1	N68°19' E	999.6'
L2	N16°28' E	2,498.2'
L3	N81°00' E	876.5'

- 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. 26-110 4.412 Ac.
- F-Kelly TM. 26-46.18 4.323 Ac.
- G-Kelly TM. 26-46.17 4.714 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-Kanz TM. 26-46.7 7.32 Ac.
- N-JayBee TM. 26-46.14 8.692 Ac.
- O-Pitman 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-Suter TM. 20-65.1 1.58 Ac.
- GG-Baker TM. 21-39 3.15 Ac.
- HH-Fletcher & Mitchell TM. 21-37 3.86 Ac.
- II-Spencer TM. 21-36 2.06 Ac.
- JJ-Cregg TM. 21-35 0.72 Ac.
- KK-P. Leasure TM. 21-26 30 Ac.
- LL-J. Leasure & Cilmore TM. 21-27 40 Ac.

NORTH

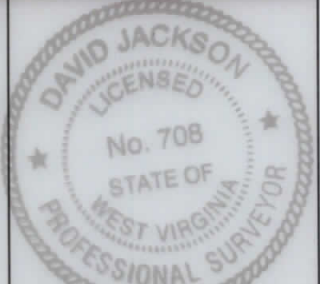


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) David L Jackson
 R.P.E. _____ P.S. 708



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

DATE December 19, 2019
 OPERATOR'S WELL NO. Larry 1
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____ STATE 47 COUNTY 095 PERMIT 02497
 (IF "GAS") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 738.76' 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 _____ 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 = 6,222'; TMD = 15,238'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 60 Walnut Avenue, Suite 190, Clark, NJ 07066 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

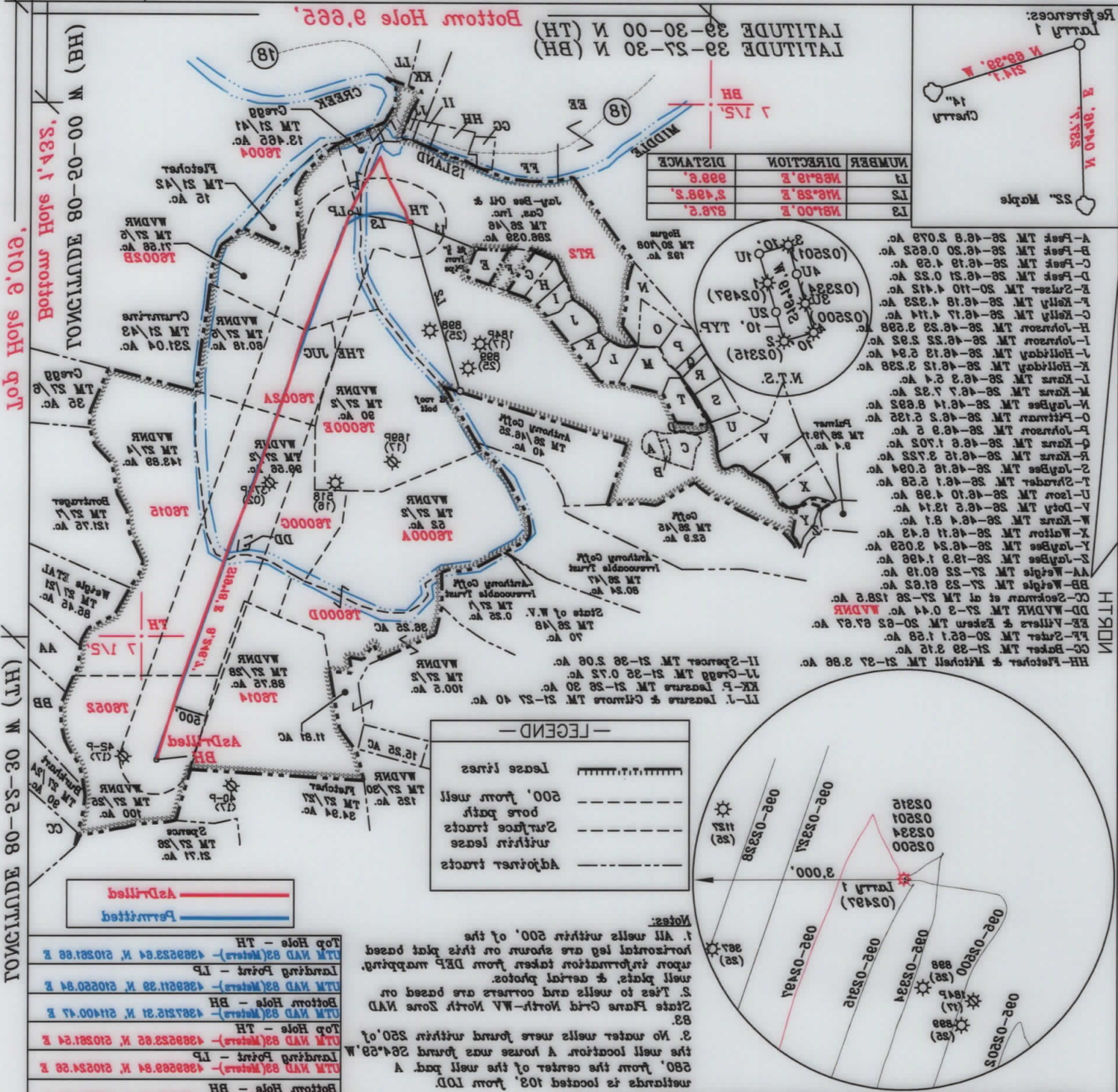
— LEGEND —

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

- Notes:
- All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, and aerial photos.
 - Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
 - No water wells were found within 250' of the well location. A house was found S64°59'W 580' from the center of the well pad. A wetlands is located 103' from LOD.

Top Hole - TH	UTM NAD 83(Meters)- 4369523.64 N, 510261.86 E
Landing Point - LP	UTM NAD 83(Meters)- 4369511.39 N, 510550.84 E
Bottom Hole - BH	UTM NAD 83(Meters)- 4367215.31 N, 511400.47 E
Top Hole - TH	UTM NAD 83(Meters)- 4369523.65 N, 510261.54 E
Landing Point - LP	UTM NAD 83(Meters)- 4369569.84 N, 510524.58 E
Bottom Hole - BH	UTM NAD 83(Meters)- 4367212.40 N, 511394.25 E

LONGITUDE 80-50-00 W (BH)
 Bottom Hole 1,432'
 Top Hole 9,019'
 LONGITUDE 80-52-30 W (TH)



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

WELL TYPE: OIL & GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 738.78' WATER SHED Outlet Middle Island Creek (HUC-10)
 DISTRICT Ellsworth
 QUADRANGLE Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)
 SURFACE OWNER Jay Bee Oil & Gas, Inc.
 OIL & GAS ROYALTY OWNER Ridgetop Capital LP and Ridgetop Capital II LP LEASE 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) AsDrilled

DESIGNATED AGENT: Randy Broda
 WELL OPERATOR: Jay-Bee Oil & Gas, Inc.
 TARGET FORMATION: Marcellus
 PLUG AND ABANDON CLEAN OUT AND REPLUG
 ESTIMATED DEPTH TVD = 6,222'; TMD = 15,238'

DATE December 19, 2019
 OPERATOR'S WELL NO. Larry 1
 API WELL NO. 02497
 STATE COUNTY PERMIT

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(SIGNED) David Jackson
 R.P.E. p. 2. 708

STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 No. 708
 DAVID JACKSON
 LICENSED

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

ADDRESS 260 Walnut Avenue, Suite 190, Clark, NJ 07066 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26837
 WELL OPERATOR Jay-Bee Oil & Gas, Inc.
 DESIGNATED AGENT Randy Broda
 TARGET FORMATION Marcellus
 ESTIMATED DEPTH TVD = 6,222'; TMD = 15,238'

PLUG AND ABANDON CLEAN OUT AND REPLUG
 ESTIMATED DEPTH TVD = 6,222'; TMD = 15,238'

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