

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

API 47-095-02501-00 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 3
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.
Address 3570 Shields Hill Road 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 4369527.06 Easting 510259.49
Landing Point of Curve Northing 4369509.97 Easting 510073.78
Bottom Hole Northing 4367171.52 Easting 510915.03

Elevation (ft) 738.58' 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)

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Date permit issued 5/29/2018 Date drilling commenced 8/20/2018 Date drilling ceased 9/10/2018
Date completion activities began 12/13/2018 Date completion activities ceased 1/14/2019
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:
JCB
6/18/2020

API 47-095 - 02501-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 3

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 1/2"	13 3/8"	329'	New	H40-48#	42'-284'	Y
Coal							
Intermediate 1	11"	8 5/8"	2,098'	New	J55-24#	319'-1,965'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	14,950'	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	283	15.6	1.196	339	CTS	8
Coal							
Intermediate 1	Class A	618	15.6	1.188	734	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	2,189	14.5	1.17	2,570	300' FS	8
Tubing							

Drillers TD (ft) 14,950' Loggers TD (ft) 14,950'
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

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Kick off depth (ft) 5.751'

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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 _____
 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 - 02501-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 3

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12/13/18	14800	14692	97	Marcellus
2	12/13/18	14648	14528	72	Marcellus
3	12/14/18	14494	14372	72	Marcellus
4	12/14/18	14328	14150	72	Marcellus
5	12/15/18	14112	13962	72	Marcellus
6	12/16/18	13918	13760	72	Marcellus
7	12/17/18	13724	13572	72	Marcellus
8	12/17/18	13532	13388	72	Marcellus
9	12/18/18	13346	13194	72	Marcellus
10	12/19/18	13134	12980	72	Marcellus
11	12/19/18	12936	12808	72	Marcellus
12	12/19/18	12770	12586	72	Marcellus
13	12/20/18	12536	12406	72	Marcellus
14	12/20/18	12362	12210	72	Marcellus
15	12/21/18	12172	12028	72	Marcellus
16	12/21/18	11980	11816	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)
1	12/13/18	69.6	8878	n/a	4531	214580	6537	n/a
2	12/13/18	74.8	7888	n/a	3670	249920	9340	n/a
3	12/14/18	74.2	7694	5794	4225	251230	7354	n/a
4	12/14/18	74.4	8096	5351	3649	249240	7278	n/a
5	12/15/18	80	7328	6987	4548	250060	7149	n/a
6	12/16/18	79.9	7122	6362	5173	250890	7142	n/a
7	12/17/18	79.3	7118	6139	4758	247600	7547	n/a
8	12/17/18	80.3	6838	6370	4868	243080	6672	n/a
9	12/18/18	79.8	7135	6216	4295	248380	7293	n/a
10	12/19/18	79.9	7234	6603	4868	249720	6482	n/a
11	12/19/18	79.6	7046	5385	4733	241700	6964	n/a
12	12/19/18	79.7	7092	6249	5150	251180	6955	n/a
13	12/20/18	79.5	7199	6376	4894	257000	6993	n/a
14	12/20/18	79.8	6971	6444	5424	249740	6677	n/a
15	12/21/18	74.3	6994	6855	4307	245040	6885	n/a
16	12/21/18	74.7	6989	6354	4390	251420	7000	n/a

Please insert additional pages as applicable.

API 47- 095 - 02501

Farm name Jay-Bee Oil & Gas, Inc.

Well number Larry 3

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	12/21/18	11786	11634	72	Marcellus
18	12/21/18	11590	11452	72	Marcellus
19	12/22/18	11390	11262	72	Marcellus
20	12/22/18	11224	11054	72	Marcellus
21	12/22/18	11006	10882	72	Marcellus
22	1/2/19	10824	10692	72	Marcellus
23	1/2/19	10654	10464	72	Marcellus
24	1/3/19	10410	10258	72	Marcellus
25	1/3/19	10222	10062	72	Marcellus
26	1/3/19	10006	9866	72	Marcellus
27	1/4/19	9822	9706	72	Marcellus
28	1/5/19	9660	9490	72	Marcellus
29	1/5/19	9442	9302	72	Marcellus
30	1/7/19	9266	9124	72	Marcellus
31	1/11/19	8993.5	8896	72	Marcellus
32	1/11/19	8870	8732	72	Marcellus

Please insert additional pages as applicable.

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	12/21/18	75	7157	6841	4062	230380	7146	n/a
18	12/21/18	74.2	6959	6023	3782	244880	6748	n/a
19	12/22/18	75	6960	7520	4378	232680	6313	n/a
20	12/22/18	75	6763	6520	4111	247170	6834	n/a
21	12/22/18	74.8	6715	6310	4139	252500	6941	n/a
22	1/2/19	74.9	6731	6004	4549	237280	7087	n/a
23	1/2/19	74.8	6461	7029	4826	246400	7112	n/a
24	1/3/19	74.6	6474	6998	4616	249720	6627	n/a
25	1/3/19	74.6	6396	6081	4315	253850	6779	n/a
26	1/3/19	75.1	6682	7295	3993	252430	7086	n/a
27	1/4/19	74.9	6568	7097	3695	252990	7138	n/a
28	1/5/19	74.7	6223	6988	4547	247270	6731	n/a
29	1/5/19	71.7	6486	7137	5002	228260	6391	n/a
30	1/7/19	74.1	6853	6635	9412	152340	4967	n/a
31	1/11/19	38.5	6477	9036	4600	7035	6456	n/a
32	1/11/19	74.7	6545	6069	4379	203940	6091	n/a

Please insert additional pages as applicable.

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API 47- 095 - 02501-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 3

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	1/12/19	8684	8532	72	Marcellus
34	1/12/19	8484	8336	72	Marcellus
35	1/12/19	8294	8138	72	Marcellus
36	1/12/19	8102	7940	72	Marcellus
37	1/12/19	7904	7738	72	Marcellus
38	1/13/19	7680	7544	72	Marcellus
39	1/13/19	7500	7362	72	Marcellus
40	1/13/19	7310	7162	72	Marcellus
41	1/14/19	7124	6918	72	Marcellus
42	1/14/19	6868	6714	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	1/12/19	74	6671	6420	4530	202200	6590	n/a
34	1/12/19	74.8	6362	6562	4425	248950	6727	n/a
35	1/12/19	74.5	6272	6399	4125	250830	7496	n/a
36	1/12/19	74.4	6281	6655	3804	251870	7436	n/a
37	1/12/19	74.1	6299	6764	3920	252090	6687	n/a
38	1/13/19	74.7	6176	6537	5152	251500	6858	n/a
39	1/13/19	74.9	5964	5622	4992	250140	6820	n/a
40	1/13/19	74.8	5919	5778	4659	254640	6744	n/a
41	1/14/19	74.5	5878	5696	5372	253420	6983	n/a
42	1/14/19	75	5944	5616	5145	238280	6311	n/a

Please insert additional pages as applicable.

API 47- 095 - 02501-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Larry 3

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6,208'</u>	<u>TVD</u>	<u>14,950'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2650 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 8100 mcfpd Oil 324 bpd NGL n/a bpd Water 810 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: 47-095-02501 County: Tyler
District: Ellsworth Well No: Larry 3
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:

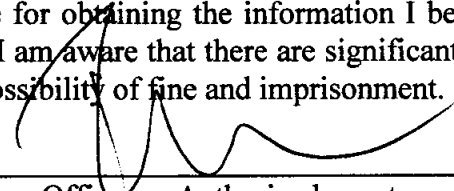
Optional Pretreatment test: n/a Cl- mg/l n/a DO mg/l

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:

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API Permit No. 47- 095 - 02501 _____;

Acreage _____;

Watershed Middle Island Creek _____;

District Ellsworth _____;

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 Road _____

Cairo, WV 26337 _____

Telephone 304-628-3111 _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/13/2018
Job End Date:	1/14/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02501-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Larry 3
Latitude:	39.47615400
Longitude:	-80.88088500
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,900
Total Base Water Volume (gal):	12,311,544
Total Base Non Water Volume:	86,405

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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	Supplied by Operator	Base Fluid					
			Water	7732-18-5	100.00000	90.53880	
Other Chemical (s)	Listed Above	See Trade Name (s) List					
			Water	7732-18-5	55.00000	0.01386	

			Water	7732-18-5	85.00000	0.45950	
			Water	7732-18-5	55.00000	0.01412	
			Water	7732-18-5	50.00000	0.04221	
20/40 White	FTSI	Proppant		Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below			
FRW-1450	FTSI	Friction Reducer		Listed Below			
CS-1000 SI	FTSI	Scale Inhibitor		Listed Below			
SPB-1	FTSI	Breaker		Listed Below			
30/50 White	FTSI	Proppant		Listed Below			
100 Mesh Sand	FTSI	Proppant		Listed Below			

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HVG-1 4.0	FTSI	Water gelling agent		Listed Below					
40/70 White	FTSI	Proppant		Listed Below					
ICI-3240	FTSI	Biocide		Listed Below					
10.1%-15.0% HCL	FTSI	Acid		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		3.99555		
			Silica, Quartz	14808-60-7	100.00000		2.77491		
			Silica, Quartz	14808-60-7	100.00000		1.39066		
			Silica, Quartz	14808-60-7	100.00000		0.60706		
			Hydrogen Chloride	7647-01-0	15.00000		0.08109		
			Cationic Polyacrylamide	9003-05-8	30.00000		0.02533		
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000		0.02533		
			Phosphonic Acid, {Nitrilotris (methylene)} Tris	6419-19-8	35.00000		0.00882		
			Petroleum Distillate	64742-47-8	55.00000		0.00722		
			Guar gum	9000-30-0	55.00000		0.00722		
			Raffinates, Sorption Process	64741-85-1	55.00000		0.00722		
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4	24.00000		0.00616		
			Sodium Hydroxide	1310-73-2	23.00000		0.00590		

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	Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00422
	Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00299
	Phosphonic Acid, ((Dimethylamino) Methylene) Bis -	29712-30-9	5.00000	0.00126
	Methanol	67-56-1	90.00000	0.00086
	Suspending Agent	1302-78-9	5.00000	0.00066
	Quartz	14808-60-7	4.00000	0.00053
	Phosphorous Acid	10294-56-1	2.00000	0.00050
	Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00026
	Orthophosphoric acid	7664-38-2	0.75000	0.00019
	Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00010
	Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00010
	Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00010
	Propargyl Alcohol	107-19-7	5.00000	0.00005
	Sodium Metaborate	7775-19-1	1.40000	0.00004
	N-olefins	Proprietary	3.00000	0.00003
	Hydrochloric acid	7647-01-0	0.00500	0.00000

* 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 19.10.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

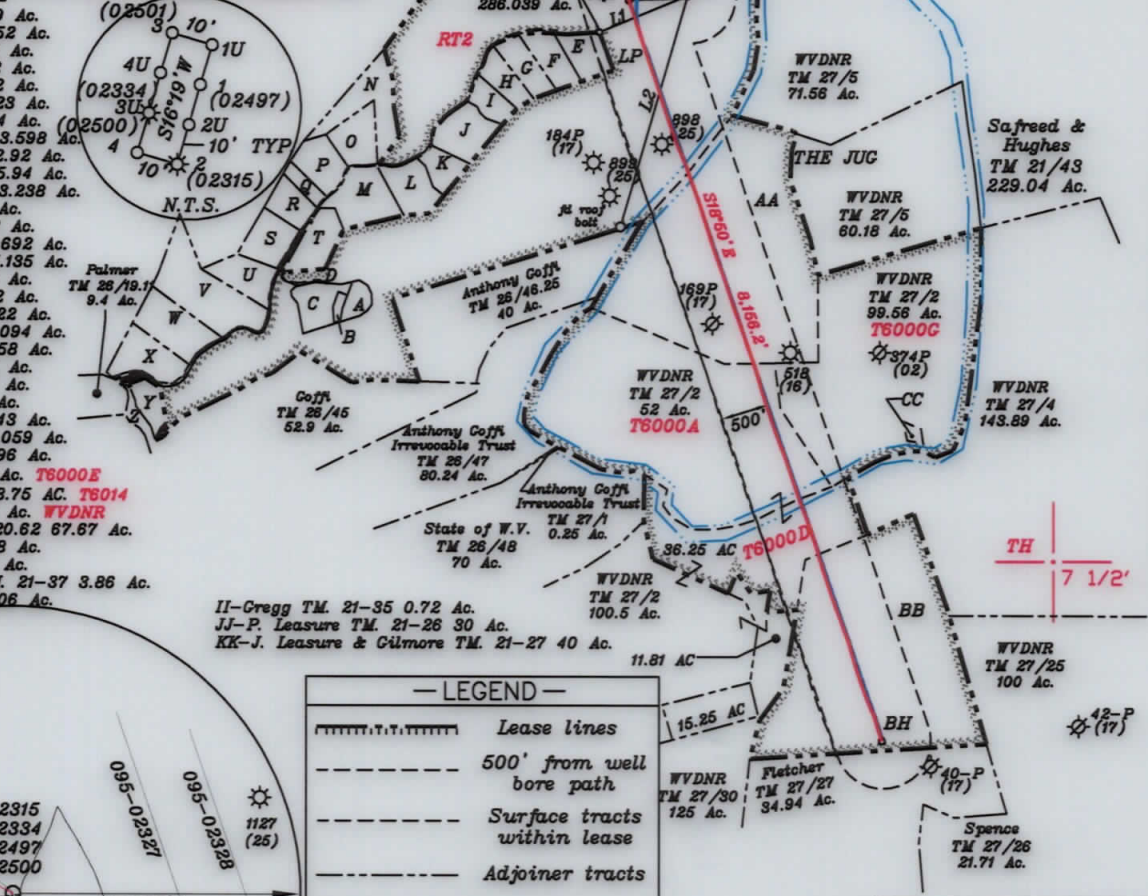
References:
Larry 3



LATITUDE 39-27-30 N (BH)

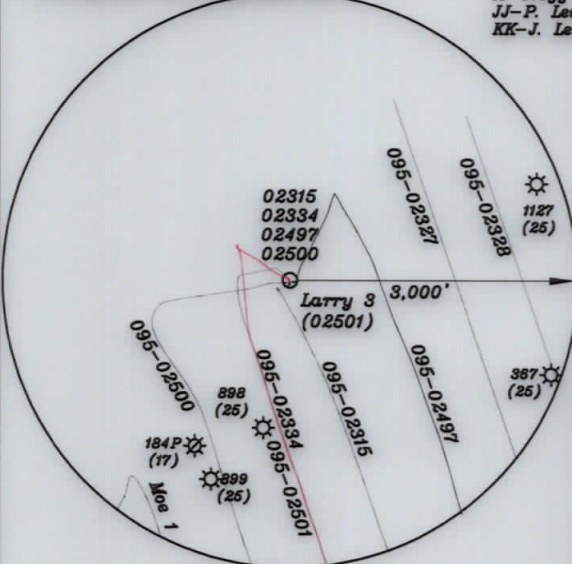
NUMBER	DIRECTION	DISTANCE
L1	N67°35' E	997.8'
L2	N16°15' E	2,507.2'
L3	S85°42' W	612.1'

- 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-Holiday TM 26-46.13 5.94 Ac.
- K-Holiday 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-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-WVDNR TM 27/2 90.0 Ac. T6000E
- BB-WVDNR TM 27/ 28 88.75 Ac. T6014
- CC-WVDNR TM 27-3 0.44 Ac. WVDNR
- DD-Villers & Eskew TM 20.62 67.67 Ac.
- EE-Suter TM 20-65.1 1.58 Ac.
- FF-Baker TM 21-39 3.15 Ac.
- GG-Fletcher & Mitchell TM 21-37 3.86 Ac.
- HH-Spencer TM 21-36 2.06 Ac.



NORTH

LONGITUDE 80-50-00 W (BH) Bottom Hole 1,564'
LONGITUDE 80-52-30 W (TH) Top Hole 9,006'



— 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, & 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)-4369527.38 N, 510259.53 E
Landing Point - LP	UTM NAD 83(Meters)- 4369359.86 N, 510128.44 E
Bottom Hole - BH	UTM NAD 83(Meters)- 4367172.67 N, 510918.31 E
Top Hole - TH	UTM NAD 83(Meters)-4369527.06 N, 510259.49 E
Landing Point - LP	UTM NAD 83(Meters)- 4369509.97 N, 510073.78 E
Bottom Hole - BH	UTM NAD 83(Meters)- 4367171.52 N, 510915.03 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



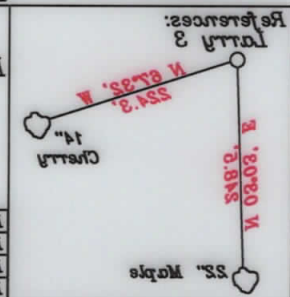
STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE March 9, 2020
 OPERATOR'S WELL NO. Larry 3
 API WELL NO. _____

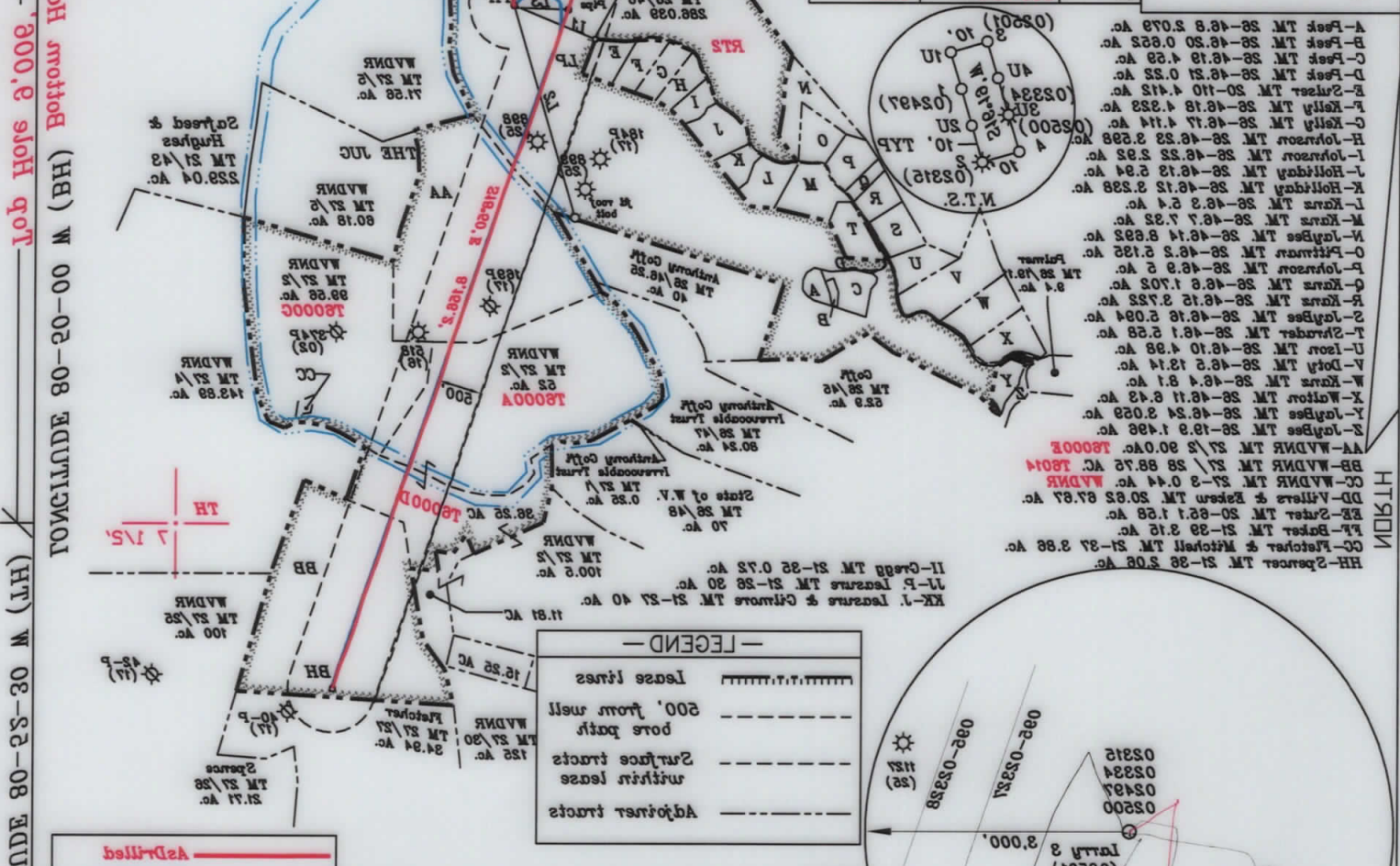
WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL _____
 (IF 'GAS') PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 738.58' WATER SHED Outlet Middle Island Creek (HUC-10)
 DISTRICT Ellsworth COUNTY Tyler
 QUADRANGLE Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)
 SURFACE OWNER 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) As Drilled

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,208'; TMD = 14,950'
 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

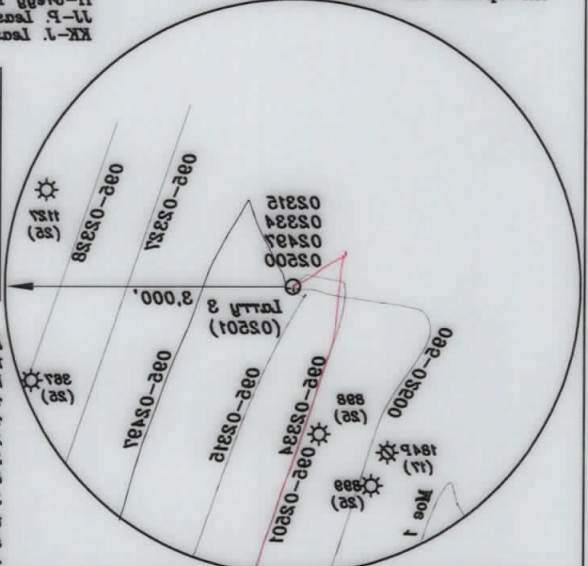


NUMBER	DIRECTION	DISTANCE
L3	282°42'W	812.1'
L2	Merid'E	2,507.2'
L1	N67°32'E	987.8'



—LEGEND—

--- (dashed line)	Lease lines
- - - - (long dashed line)	500' from well bore path
- - - - (short dashed line)	Surface tracts within lease
- - - - (dash-dot line)	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 & aerial photos.
 - As 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 horse was found 264.25' 580' from the center of the well pad. A wetland is located 103' from LOD.

Top Hole - TH
 UTM NAD 83 (Meters) - 438927.38 N 51028.23 E
 Landing Point - LP
 UTM NAD 83 (Meters) - 438925.88 N 51018.44 E
 Bottom Hole - BH
 UTM NAD 83 (Meters) - 438712.57 N 51018.31 E
 Top Hole - TH
 UTM NAD 83 (Meters) - 438927.08 N 51028.49 E
 Landing Point - LP
 UTM NAD 83 (Meters) - 438928.97 N 51027.78 E
 Bottom Hole - BH
 UTM NAD 83 (Meters) - 438711.52 N 51018.02 E

As Drilled Permitted

As Drilled

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 OF ENVIRONMENTAL PROTECTION.

(SIGNED) *David Jackson*
 P.2. 708

DATE March 9, 2020

OPERATOR'S WELL NO. Larry 3

STATE COUNTY PERMIT 02501

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL

(IF GAS) PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 738.58' 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. ACREAGE 286.03 ac.

DIL & GAS ROYALTY OWNER Ridgeway Capital LP and Ridgeway 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) As Drilled

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,208'; TMD = 14,950'

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

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

ADDRESS: 20 Route 22 E. Union, NJ 07083
 WELL OPERATOR Jay-Bee Oil & Gas, Inc.
 DESIGNATED AGENT Randy Broda
 ADDRESS 3270 Shields Hill Rd., Carro, WV 26037

