

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

API 47-095-02502-00 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Moe Pad Field/Pool Name _____
Farm name Jay-Bee Oil & Gas, Inc. Well Number Moe 1

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 4368728.96 Easting 509689.62
Landing Point of Curve Northing 4368655.61 Easting 509883.26
Bottom Hole Northing 4367017.56 Easting 510455.31

Elevation (ft) 962.0' 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 6/28/2018 Date drilling commenced 10/12/2018 Date drilling ceased 10/26/2018
Date completion activities began 1/18/2019 Date completion activities ceased 2/13/2019
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 300' 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:
QCB
6/18/2020

API 47-095 - 02502-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Moe 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" 1/2"	13" 3/8"	371'	New	H40-48#	370'-82'	Y
Coal							
Intermediate 1	11"	8" 5/8"	2,184'	New	J55-24#	2139'-350'	Y
Intermediate 2							
Intermediate 3							
Production	7" 7/8"	5" 1/2"	12,752'	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 ²)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	313	15.6	1.196	375	CTS	8
Coal							
Intermediate 1	Class A	650	15.6	1.188	772	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	1840	14.5	1.17	2160		
Tubing							

Drillers TD (ft) 12,781' Loggers TD (ft) 12,781'
 Deepest formation penetrated Marcellus Plug back to (ft) n/a
 Plug back procedure n/a

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Kick off depth (ft) 5,800'

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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 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 - 02502-00

Farm name Jay-Bee Oil & Gas, Inc.

Well number Moe 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	1/18/19	12566	12518	97	Marcellus
2	1/19/19	12474	12326	72	Marcellus
3	1/19/19	12284	12174	72	Marcellus
4	1/20/19	12126	11964	72	Marcellus
5	1/21/19	11926	11786	72	Marcellus
6	1/23/19	11740	11588	72	Marcellus
7	1/23/19	11546	11364	72	Marcellus
8	1/24/19	11324	11192	72	Marcellus
9	1/24/19	11158	11034	72	Marcellus
10	1/24/19	10980	10812	72	Marcellus
11	1/29/19	10770	10616	72	Marcellus
12	1/29/19	10574	10436	72	Marcellus
13	2/3/19	10390	10240	72	Marcellus
14	2/3/19	10190	10058	72	Marcellus
15	2/3/19	10010	9860	72	Marcellus
16	2/4/19	9804	9664	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.

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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	1/18/19	74.5	7464	n/a	4952	182760	5596	n/a
2	1/19/19	74.9	7294	6618	4527	253030	7646	n/a
3	1/19/19	71.4	6803	6079	3479	273180	7667	n/a
4	1/20/19	71.7	6685	6771	4723	248460	6966	n/a
5	1/21/19	71.7	6602	6266	4342	248320	7093	n/a
6	1/23/19	71.4	6820	6132	5198	227600	6880	n/a
7	1/23/19	60.8	7419	6503	4033	151780	10416	n/a
8	1/24/19	71.4	6562	6048	3655	243190	7200	n/a
9	1/24/19	71.9	6719	7335	4654	219380	6338	n/a
10	1/24/19	71.7	6438	6263	4390	210940	6595	n/a
11	1/29/19	71.5	6363	6542	4689	212300	6053	n/a
12	1/29/19	71.2	6534	6519	5191	221470	6472	n/a
13	2/3/19	71.6	6610	7508	4372	188000	5883	n/a
14	2/3/19	71.8	6679	6657	4383	209490	6174	n/a
15	2/3/19	71.4	6387	6959	3638	216220	6721	n/a
16	2/4/19	71.9	6378	7518	4360	217640	6568	n/a

Please insert additional pages as applicable.

API 47- 095 - 02502-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Moe 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	2/4/19	9624	9464	72	Marcellus
18	2/5/19	9410	9310	72	Marcellus
19	2/5/19	9266	9106	72	Marcellus
20	2/8/19	9052	8890	72	Marcellus
21	2/9/19	8850	8698	72	Marcellus
22	2/9/19	8650	8510	72	Marcellus
23	2/10/19	8464	8300	72	Marcellus
24	2/10/19	8266	8128	72	Marcellus
25	2/11/19	8096	7948	72	Marcellus
26	2/12/19	7904	7762	72	Marcellus
27	2/12/19	7716	7564	72	Marcellus
28	2/12/19	7518	7348	72	Marcellus
29	2/13/19	7308	7170	72	Marcellus
30	2/13/19	7128	7004	72	Marcellus
31	2/13/19	6948	6788	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	2/4/19	73.2	6294	6930	4320	214210	6426	n/a
18	2/5/19	69.8	7429	8326	4888	91800	9614	n/a
19	2/5/19	71	6187	7102	4394	203760	6488	n/a
20	2/8/19	70.3	6178	7243	4756	219310	6846	n/a
21	2/9/19	71.8	6191	6924	4742	219960	6543	n/a
22	2/9/19	70.3	6159	7748	4813	222780	6845	n/a
23	2/10/19	70.4	6269	6760	4379	219330	6581	n/a
24	2/10/19	71.1	6279	7665	4770	219940	6644	n/a
25	2/11/19	71.1	5882	7506	4815	219100	6564	n/a
26	2/12/19	72.1	5981	5285	4255	219720	6377	n/a
27	2/12/19	72.2	6019	6153	5300	216210	6354	n/a
28	2/12/19	72	5964	7257	4556	212590	6452	n/a
29	2/13/19	71.9	5840	7363	4598	218000	6382	n/a
30	2/13/19	72.3	5818	7293	5413	208820	6136	n/a
31	2/13/19	72.4	5821	8205	5692	217490	6225	n/a

Please insert additional pages as applicable.

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API 47- 095 - 02502-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Moe 1

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6,427'</u>	<u>TVD</u>	<u>12,746'</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 2480 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 6000 mcfpd Oil 240 bpd NGL n/a bpd Water 600 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)
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Hamilton	0	5550	0		
Upper Marcellus	5550	6305			
Parcell Lime	6305	6327			
Shale	6327	6331			
Lower Marcellus	6331	6368			
Onondaga	6368	6417			

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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 Stratgraph 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

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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: 47-095-02502 County: Tyler
District: Ellsworth Well No: Moe 1
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 - 02502 _____;

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 _____

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/18/2019
Job End Date:	2/14/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02502-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Moe 1
Latitude:	39.45802500
Longitude:	-80.88720600
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,900
Total Base Water Volume (gal):	8,940,960
Total Base Non Water Volume:	62,435

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	91.17973	
Other Chemical (s)	Listed Above	See Trade Name (s) List	Water	7732-18-5	55.00000	0.01420	



			Water	7732-18-5	55.00000	0.01396	
			Water	7732-18-5	50.00000	0.04560	
			Water	7732-18-5	85.00000	0.45116	
CS-1000 SI	FTSI	Scale Inhibitor		Listed Below			
10.1%-15.0% HCL	FTSI	Acid		Listed Below			
20/40 White	FTSI	Proppant		Listed Below			
30/50 White	FTSI	Proppant		Listed Below			
ICI-3240	FTSI	Biocide		Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below			
SPB-1	FTSI	Breaker		Listed Below			

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HVG-1 4.0	FTSI	Water gelling agent		Listed Below					
40/70 White	FTSI	Proppant		Listed Below					
100 Mesh Sand	FTSI	Proppant		Listed Below					
FRW-1450	FTSI	Friction Reducer		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	3.14183			
			Silica, Quartz	14808-60-7	100.00000	2.92927			
			Silica, Quartz	14808-60-7	100.00000	1.42975			
			Silica, Quartz	14808-60-7	100.00000	0.62479			
			Hydrogen Chloride	7647-01-0	15.00000	0.07962			
			Cationic Polyacrylamide	9003-05-8	30.00000	0.02736			
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.02736			
			Phosphonic Acid, {Nitrilotris (methylene)} Tris	6419-19-8	35.00000	0.00888			
			Petroleum Distillate	64742-47-8	55.00000	0.00858			
			Raffinates, Sorption Process	64741-85-1	55.00000	0.00858			
			Guar gum	9000-30-0	55.00000	0.00858			
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4	24.00000	0.00619			
			Sodium Hydroxide	1310-73-2	23.00000	0.00594			

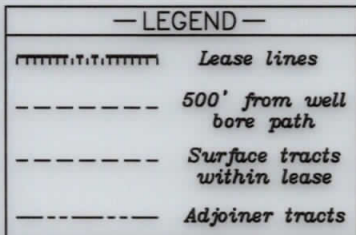
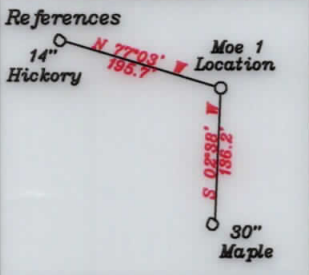
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	Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00483	
	Alcohol, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00456	
	Phosphonic Acid, ((Dimethylamino) Methylene) Bis -	29712-30-9	5.00000	0.00127	
	Methanol	67-56-1	90.00000	0.00084	
	Suspending Agent	1302-78-9	5.00000	0.00078	
	Quartz	14808-60-7	4.00000	0.00062	
	Phosphorous Acid	10294-56-1	2.00000	0.00051	
	Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00031	
	Orthophosphoric acid	7664-38-2	0.75000	0.00019	
	Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00009	
	Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00009	
	Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00009	
	Sodium Metaborate	7775-19-1	1.40000	0.00007	
	Propargyl Alcohol	107-19-7	5.00000	0.00005	
	N-olefins	Proprietary	3.00000	0.00003	
	Hydrochloric acid	7647-01-0	0.00500	0.00000	

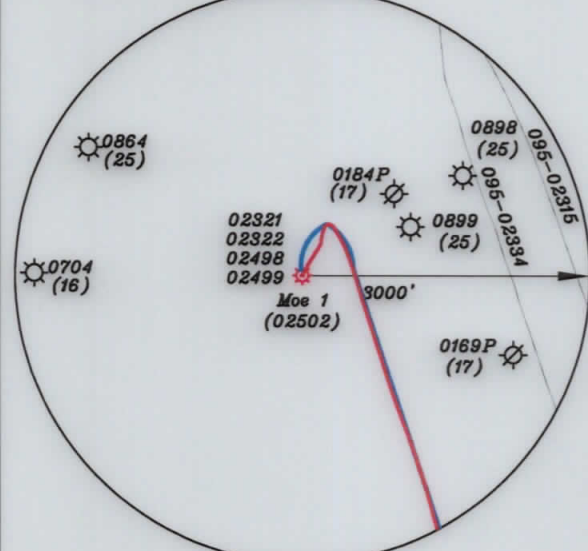
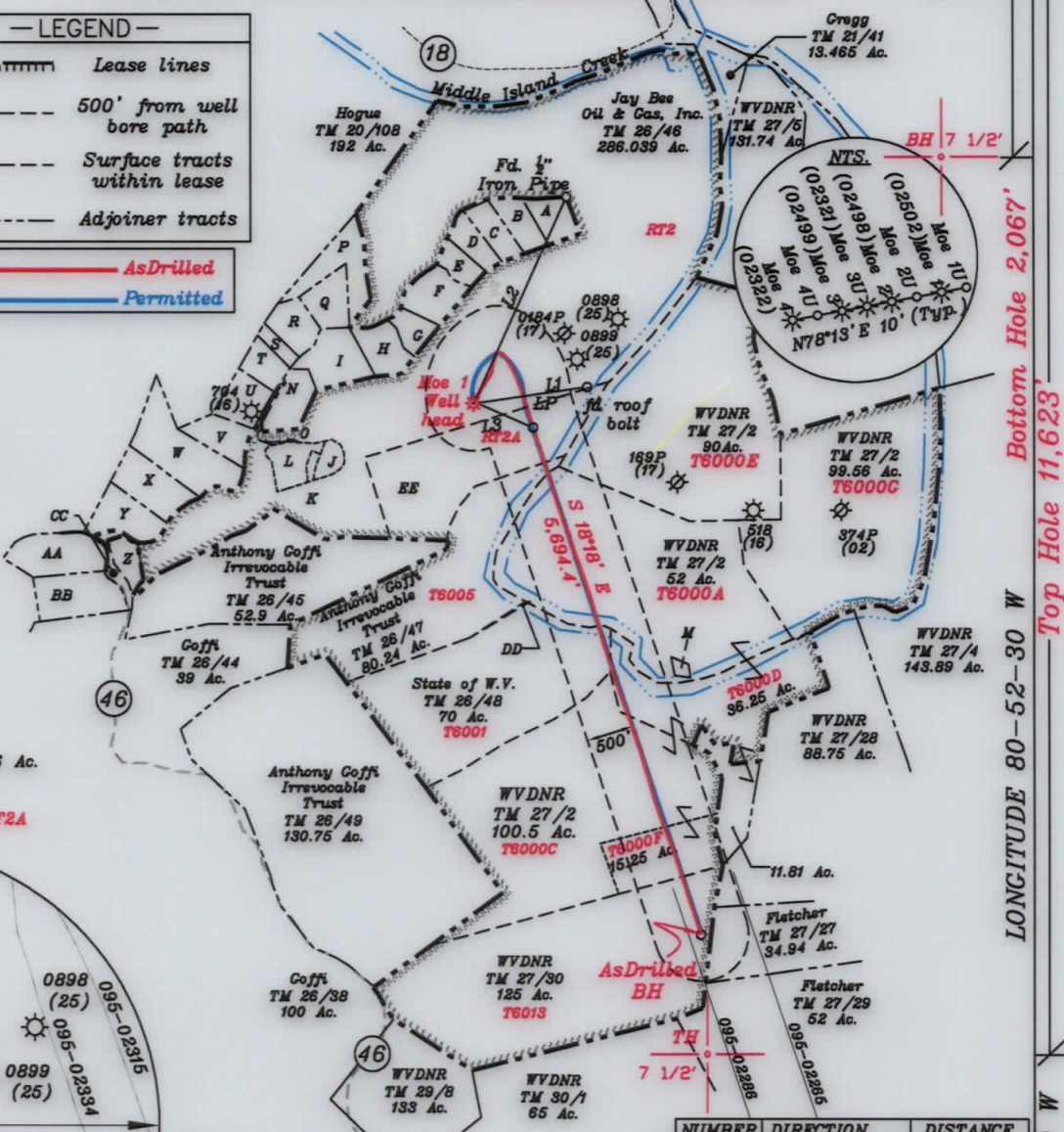
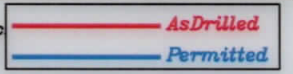
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* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 *** If you are calculating 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)



- A-Sulser TM. 20-110 4.412 Ac.
- B-Kelly et al TM. 26-46.18 4.323 Ac
- C-Kelly et al TM. 26-46.17 4.114 Ac.
- D-Johnson TM. 26-46.23 3.598 Ac.
- E-Johnson TM. 26-46.22 2.92 Ac.
- F-Holliday TM. 26-46.13 5.94 Ac
- G-Holliday TM. 26-46.12 3.238 Ac.
- H-Kanz TM. 26-46.3 5.4 Ac.
- I-Patera TM. 26-46.7 7.32 Ac.
- J-Peak TM. 26-46.8 2.079 Ac. **DOAN**
- K-Peak TM. 26-46.20 0.652 Ac. **DOAN**
- L-Peak TM. 26-46.19 4.59 Ac. **DOAN**
- M-WVDNR TM. 27-3 4.54 Ac. **WVDNR**
- N-Shrader TM. 26-46.1 5.58 Ac.
- O-Peak TM. 26-46.21 0.22 Ac.
- P-JayBee TM. 26-46.14 8.692 Ac.
- Q-Pittman TM. 26-46.2 5.135 Ac.
- R-Johnson TM. 26-46.9 5 Ac.
- S-Patera TM. 26-46.6 1.702 Ac.
- T-Patera TM. 26-46.15 3.722 Ac.
- U-JayBee TM. 26-46.16 5.094 Ac.
- V-Ison TM. 26-46.10 4.98 Ac.
- W-Doty TM. 26-46.5 13.14 Ac.
- X-Kanz TM. 26-46.4 8.1 Ac.
- Y-Walton TM. 26-46.11 6.43 Ac.
- Z-JayBee TM. 26-46.24 3.059 Ac.
- AA-Palmer TM. 26-19.11 9.40 Ac.
- BB-Westbrook TM. 26-19.4 9.36 Ac.
- CC-JayBee Oil & Gas, Inc. TM. 26-19.9 1.496 Ac.
- DD- Anthony Coffi Irrevocable Trust TM. 27/1 0.24 Ac. **T6035**
- EE- Anthony Coffi TM. 26/46.25 40 Ac. **RT2A**



- Notes:
- All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
 - Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
 - No water wells were found within 250' of the well location. No dwellings or buildings were found within 625' from the center of the proposed pad. No perennial stream is located within 100' of LOD. No producing trout stream located within 300' of LOD

NUMBER	DIRECTION	DISTANCE
L1	N81°31' E	1,225.6'
L2	N24°11' E	2,419.6'
L3	S65°18' E	679.6'

Top Hole - TH	UTM NAD 83(Meters)-4368729.34 N, 509689.55 E
Landing Point - LP	UTM NAD 83(Meters)- 4368741.56 N, 509851.27 E
Bottom Hole - BH	UTM NAD 83(Meters)- 4367018.89 N, 510457.59 E
Top Hole - TH	UTM NAD 83(Meters)-4368728.96 N, 509689.62 E
Landing Point - LP	UTM NAD 83(Meters)- 4368655.61 N, 509883.26 E
Bottom Hole - BH	UTM NAD 83(Meters)- 4367017.56 N, 510455.31 E

(+) 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 October 02, 2019
 OPERATOR'S WELL NO. Moe 1
 API WELL NO. _____

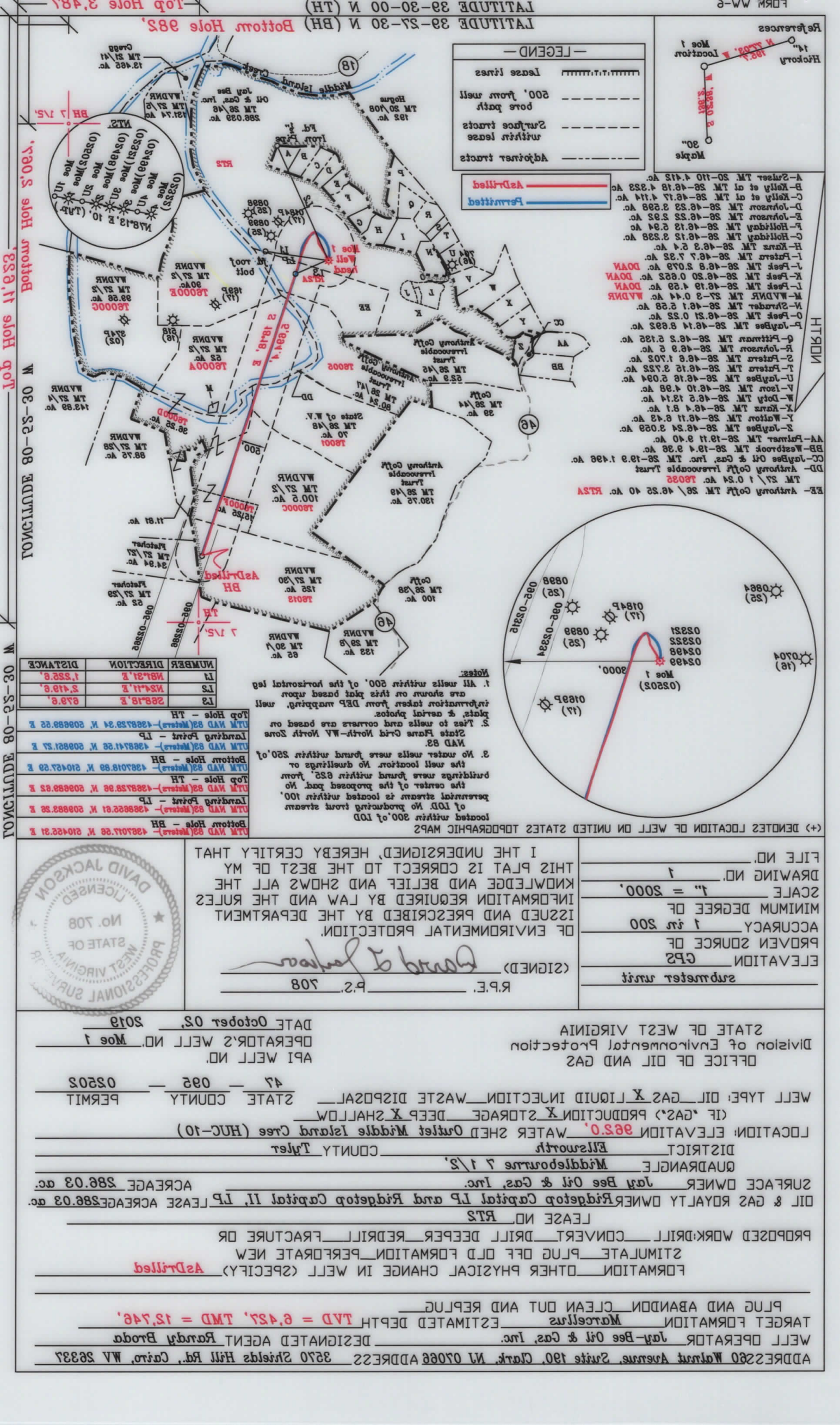
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF 'GAS') PRODUCTION STORAGE _____ DEEP SHALLOW _____

LOCATION: ELEVATION 962.0' WATER SHED Outlet Middle Island Cree (HUC-10)
 DISTRICT Ellsworth COUNTY Tyler
 QUADRANGLE Middlebourne 7 1/2'

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

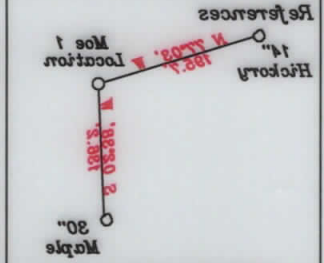
PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,427' TMD = 12,746'
 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

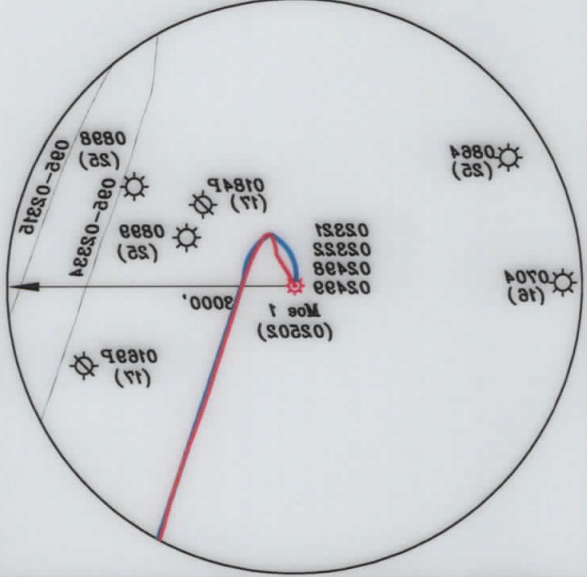


LEGEND

- Adjacent tracts
- 200' from well
- 500' from well
- Lease lines
- As Drilled
- Permitted



- EE - Anthony Corp. TM 28-48-23-40 Ac. RTSA
- DD - Anthony Corp. Irrevocable Trust TM 27-1-0-24 Ac. RTSA
- CC - Jaybee Oil & Gas, Inc. TM 28-12-3-148 Ac.
- BB - Westbrook TM 28-12-4-38 Ac.
- AA - Farmer TM 28-12-1-40 Ac.
- Y - Jaybee TM 28-48-24-308 Ac.
- X - Kaye TM 28-48-4-81 Ac.
- W - Doty TM 28-48-5-134 Ac.
- V - State TM 28-48-10-48 Ac.
- U - Jaybee TM 28-48-18-204 Ac.
- T - Peter TM 28-48-18-202 Ac.
- S - Peter TM 28-48-8-1702 Ac.
- R - Johnson TM 28-48-8-1702 Ac.
- Q - Pittman TM 28-48-8-235 Ac.
- P - Jaybee TM 28-48-14-832 Ac.
- O - Peter TM 28-48-21-022 Ac.
- N - WVDNR TM 27-3-0-44 Ac.
- M - WVDNR TM 28-48-19-459 Ac. WVDNR
- L - Peter TM 28-48-19-459 Ac. DOAN
- K - Peter TM 28-48-20-052 Ac. DOAN
- J - Peter TM 28-48-7-23 Ac.
- I - Peter TM 28-48-7-23 Ac.
- H - Kaye TM 28-48-3-54 Ac.
- G - Holiday TM 28-48-12-238 Ac.
- F - Holiday TM 28-48-12-238 Ac.
- E - Johnson TM 28-48-22-52 Ac.
- D - Johnson TM 28-48-23-238 Ac.
- C - Kelly et al TM 28-48-17-414 Ac.
- B - Kelly et al TM 28-48-18-423 Ac.
- A - Suter TM 20-110-4-412 Ac.



NUMBER	DIRECTION	DISTANCE
L3	N87°11' E	1.252'
L2	N2°41' E	2.418'
L1	S88°18' E	6.89'

Notes:
 1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well logs & aerial photos.
 2. Ties to wells and corners are based on NAD 83.
 3. No other wells were found within 250' of the well location. No dwellings or buildings were found within 825' from the center of the proposed well. No potential streams is located within 100' of LOD. No producing town streams located within 300' of LOD.



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

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

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

DATE October 02, 2019
 OPERATOR'S WELL NO. Moe 1
 API WELL NO. 02502

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

LOCATION: ELEVATION 882.0' WATER SHED Outlet Middle Island Cree (HUC-10)
 DISTRICT Ellsworth
 QUADRANGLE Middlebourne 7 1/2'
 SURFACE OWNER Jay Bee Oil & Gas, Inc.
 OIL & GAS ROYALTY OWNER Ridgeway Capital LP and Ridgeway Capital II, LP LEASE ACRES 288.03 ac. ACREAGE 288.03 ac.

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

LEASE NO. RTS

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6427', TMD = 12746'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS Walnut Avenue, Suite 190, Clark, WV 26337 3570 Shields Hill Rd., Clark, WV 26337