

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

API 47 - 095 - 02622 County Tyler District McElroy
Quad Shirley 7.5 Pad Name Doc Field/Pool Name _____
Farm name Francis W. Tennant Sr. & Randy W. Tustin Well Number 4
Operator (as registered with the OOG) Jay Bee Oil and Gas, Inc
Address 16 South Avenue West, Ste 118 City Cranford State NJ Zip 07016

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4366654.75 Easting 519939.60
Landing Point of Curve Northing 4366685.50 Easting 520178.77
Bottom Hole Northing 4365682.96 Easting 521300.53

Elevation (ft) 1,039.9' 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 Based Mud (SOBM), K-49 (Base Oil), Barite, Anco Mul P, Anco Mul S, Anco Mul OW, Anco Mul XI, Anco Mul Y, Anco Mul Z
Anco Mul OW, Claytone 3, Lime, Calcium Chloride Powder, Phalt S, Mica, Cal-Carb

Date permit issued 07/9/2019 Date drilling commenced 10/30/2019 Date drilling ceased 12/16/2021
Date completion activities began 3/6/2022 Date completion activities ceased 3/19/2022
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

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

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Reviewed by:
SM 03/17/2023
11/23/22

API 47- 095 - 02622 Farm name Francis W. Tennant Sr. & Randy W. Tustin Well number 4

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	24	18.625	30	N		NA	Y
Surface	17.5	13.375	336	N	48#/H40	50	Y
Coal							
Intermediate 1	11	8.625	2,272	N	24#/J55	100'/2200'	Y
Intermediate 2							
Intermediate 3							
Production	7.875	5-1/2	12,141	N	20#/P110	NA	NO. (per design to 300')
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	Class A, 2%CaCl, 1/4 flake					SURFACE	8
Surface	Class A, 2%CaCl, 1/4 flake	241	15.60	1.1966	289	SURFACE	8
Coal							
Intermediate 1	Class A, 2%CaCl	682	15.6	1.18	932	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A, FLY ASH, MPA-170, R-3	1897	14.50	1.17	2,240	300'	8
Tubing							

Drillers TD (ft) 12,158 MD Loggers TD (ft) 12,158
 Deepest formation penetrated MARCELLUS Plug back to (ft) NA
 Plug back procedure NA

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Kick off depth (ft) 6,340'

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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 _____
5-1/2": Vertical Hole: bow spring every 500'. Horizontal: every 42' spiral centralizer. Curve: every 84' spiral centralizer
8-5/8": Bow Spring every 375'
13-3/8": Bow Spring every joint

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 _____

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API 47- 095 - 02622 Farm name Francis W. Tennant Sr. & Randy W. Tustin Well number DOC 4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	3-6-22	12048	11952	72	MARCELLUS
2	3-7-22	11914	11742	72	MARCELLUS
3	3-7-22	11705	11581	72	MARCELLUS
4	3-7-22	11526	11370	72	MARCELLUS
5	3-8-22	11320	11194	72	MARCELLUS
6	3-8-22	11140	10986	72	MARCELLUS
7	3-9-22	10930	10790	72	MARCELLUS
8	3-7-22	10749	10616	72	MARCELLUS
9	3-10-22	10576	10446	72	MARCELLUS
10	3-11-22	10399	10242	72	MARCELLUS
11	3-11-22	10204	10081	72	MARCELLUS
12	3-13-22	10029	9890	72	MARCELLUS
13	3-14-22	9862	9680	72	MARCELLUS
14	3-14-22	9640	9508	72	MARCELLUS
15	3-14-22	9458	9305	72	MARCELLUS
16	3-14-22	9270	9128	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 (bbls)	WV Department of Environmental Protection
1	3-6-22	69.7	6707	N/A	3758	259723	9097	N/A	
2	3-7-22	70.6	6871	6080	4342	259273	8414	N/A	
3	3-7-22	70.1	6554	5963	4783	260589	9022	N/A	
4	3-7-22	70.8	6758	5589	5021	259151	8183	N/A	
5	3-8-22	70.1	6441	5988	4845	260736	8737	N/A	
6	3-8-22	70.9	6453	5627	4652	259278	8185	N/A	
7	3-9-22	70.2	6426	5613	4913	261279	8522	N/A	
8	3-7-22	71.1	6604	5754	4721	261568	8183	N/A	
9	3-10-22	70.9	6323	5622	5415	260249	8593	N/A	
10	3-11-22	71.1	6242	5843	4949	261511	8296	N/A	
11	3-11-22	71.2	6254	5741	4604	259987	8150	N/A	
12	3-13-22	70.1	6711	6069	4221	260330	9929	N/A	
13	3-14-22	71.1	6233	5367	4210	269407	8132	N/A	
14	3-14-22	71.2	6366	5832	4112	262237	8428	N/A	
15	3-14-22	71.3	6255	6173	4313	259868	8129	N/A	
16	3-15-22	71.1	6157	5485	4115	259832	8109	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)
17	3-15-22	9097	8916	72	MARCELLUS
18	3-16-22	8878	8751	72	MARCELLUS
19	3-16-22	9708	8551	72	MARCELLUS
20	3-16-22	8510	8364	72	MARCELLUS
21	3-17-22	8322	8187	72	MARCELLUS
22	3-17-22	8142	7985	72	MARCELLUS
23	3-18-22	7933	7810	72	MARCELLUS
24	3-18-22	7758	7625	72	MARCELLUS
25	3-19-22	7583	7436	72	MARCELLUS
26	3-19-22	7384	7258	72	MARCELLUS
27	3-19-22	7224	7054	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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Air Protection

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)	Nitrogen/other (units)
17	3-15-22	71.3	6077	6127	4242	259544	8117	N/A
18	3-16-22	71.1	6241	5840	4268	860760	8112	N/A
19	3-16-22	71.4	6244	6106	4032	257786	8497	N/A
20	3-17-22	71.2	6104	5522	4475	857486	8022	N/A
21	3-17-22	70.9	6162	5681	4473	260008	8565	N/A
22	3-17-22	713	6087	5422	4154	258583	8089	N/A
23	3-18-22	71.1	6203	5788	4663	259536	8116	N/A
24	3-18-22	71.3	6036	5519	4661	260952	8072	N/A
25	3-19-22	71.3	6086	5541	4105	260031	8054	N/A
26	3-19-22	70.7	6009	5917	3936	260016	8330	N/A
27	3-19-22	71	6002	5852	4213	264752	8247	N/A

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6,800'</u> TVD	<u>12,141'</u> MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2300 psi Bottom Hole 2300 psi DURATION OF TEST 24 hrs
 OPEN FLOW Gas 5054.6 mcfpd Oil 4.5 bpd NGL N/A bpd Water 10 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)
<u>SEE ATTACHED</u>	<u>0</u>		<u>0</u>		

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Please insert additional pages as applicable.

Drilling Contractor Precision Drilling
 Address 10350 Richmond AVE City Houston State TX Zip 77042
 Logging Company Stratagraph NE Inc.
 Address 116 Ellsworth Avenue City Marietta State OH Zip 45750
 Cementing Company American Cementing
 Address 3415 MILLENNIUM BLV City Massillon State OH Zip 44646
 Stimulating Company CalFrac
 Address 2001 Summit View RD City Smithfield State PA Zip 15478

Please insert additional pages as applicable.

Completed by Emily Potesta Telephone 304-628-3111
 Signature  Title Regulatory Agent Date 8/19/2022

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 - 02622 _____;

Acreage 11.47 _____;

Watershed Indian Creek of Outlet Middle Island Creek (HUC-10) _____;

District McElroy _____;

County Tyler _____;

Public Road Access Indian Creek Rd. _____;

Generally used farm name Francis W. Tennant Sr. & Randy W. Tustin _____.

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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 429 Simonton Rd. _____

Ellenboro, WV 26346 _____

Telephone 304-628-3111 _____

03/17/2023

PAD-WELL	Doc No. 4			
ELEVATION	1039			
PERMIT	47-095-02622			
	TOP TVD	BOTTOM TVD		
Carroll Sand	342	394		
Murphy Sand	453	502		
1st Cow Run Sand	537	595		
Little Dunkard Sand	667	683		
Dunkard Sand	707	809		
sandstone	918	928		
2nd Cow Run Sand	1040	1047		
Gas Sand	1210	1229		
1st Salt	1298	1351		
2nd Salt	1505	1605		
3rd Salt	1907	1961		
Maxon				
Big Lime	2007	2065		
Big Injun	2155	2210	Gas show	
Berea				
Gordon	2795	2815	Gas show	
Fifth	3005	3009		
Warren	3471	3512		
Riley	4256	4305		
Benson	4957	4963		
Alexander	5356	5412		
Hamilton	5654	6112	Gas show	
Upper Marcellus (Geneseo)	6678	6706	Gas show	
Purcell (Tully Lm)	6706	6711		
Marcellus	6763		Gas show	
Cherry Valley				

03/17/2023


Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/6/2022
Job End Date:	3/19/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02622-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Doc 4
Latitude:	39.44926900
Longitude:	-80.76826200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,799
Total Base Water Volume (gal):	9,728,176
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	Supplied by Operator	Base Fluid					
			Water	7732-18-5	100.00000	91.77696	
CalGuard™ 9100	CWS	Corrosion Inhibitor					
				Listed Below			

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MBC 12:3	CWS	Microbiocide					
				Listed Below			
Hydrochloric Acid	CWS	Clean Perforations					
				Listed Below			
DynaScale™ 3511	CWS	Scale Inhibitor					
				Listed Below			
DynaRate™ 6459	CWS	Friction Reducer					
				Listed Below			
CalGel™ 4000	CWS	Gel Slurry					
				Listed Below			
Sand (Proppant)	CWS	Propping Agent					
				Listed Below			
CalBreak™ 5700	CWS	Breaker					
				Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List					
				Listed Below			
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.							
			Crystalline silica (Quartz)	14808-60-7	100.00000	7.94181	
			Hydrochloric acid	7647-01-0	37.00000	0.15596	

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			Calcite	471-34-1	1.00000	0.05493
			Illite	12173-60-3	1.00000	0.02448
			Apatite	64476-38-6	0.10000	0.00794
			Biotite	1302-27-8	0.10000	0.00794
			Goethite	1310-14-1	0.10000	0.00794
			Guar gum	9000-30-0	60.00000	0.00651
			Distillates (petroleum), hydrotreated middle	64742-46-7	60.00000	0.00651
			Glutaraldehyde	111-30-8	14.00000	0.00329
			Ilmenite	98072-94-7	0.10000	0.00245
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3.00000	0.00070
			Ethanol	64-17-5	3.00000	0.00070
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00070
			Quaternary ammonium compounds, bis (hydrogenated tallow alkyl)dimethyl, salts with bentonite	68953-58-2	5.00000	0.00054
			Oxirane, 2-methyl-, polymer with oxirane, monodecyl ether	37251-67-5	1.50000	0.00016
			Ethylene Glycol	107-21-1	40.00000	0.00010
			Distillates (petroleum), hydrotreated light	64742-47-8	3.00000	0.00008
			Ammonium chloride ((NH4)Cl)	12125-02-9	5.00000	0.00008
			Diethylene glycol, monomethyl ether	34590-94-8	20.00000	0.00005
			Hydrogen peroxide (H2O2)	7722-84-1	8.00000	0.00004
			Ethoxylated Alcohols	68131-39-5	10.00000	0.00003
			Tar bases, quinolone derivs, benzyl chloride- quaternized	72480-70-7	10.00000	0.00003
			Formic acid	64-18-6	10.00000	0.00003
			Cinnamaldehyde	104-55-2	10.00000	0.00003

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			Inorganic Acid Salt	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Proprietary Polymer 1	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Inorganic Salt	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Organic Acid Ether	Proprietary		0.00001	Proprietary CAS & Additive Concentration
			Isopropyl alcohol	67-63-0	5.00000	0.00001	

* 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

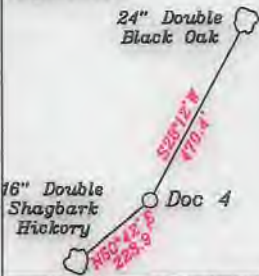
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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

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References:



LATITUDE 39-27-30 N

— LEGEND —

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



- A- Dotson T.M. 11/5.2 1.0 Ac.
- B- Straight T.M. 11/15 0.88 Ac.
- C- Tennant & Tustin T.M. 11/8 46.51 Ac.
- D- Jay Bee Oil & Gas, Inc T.M. 6/ 35.1 8.0 Ac.
- E- Fields & Leisure T.M. 11/52 1.25 Ac.
- F- Hoover T.M. 11/17.4 1.12 Ac. **T3048A**
- G- Hoover T.M. 11/17.2 0.25 Ac. **T3048B3**
- H- Lancaster T.M. 11/17.3 0.6 Ac. **T3048B2**
- I- Mt. Zion Cemetery T.M. 11/16 0.88 Ac. **Prv1**
- J- Victory Cemetery Association T.M. 11/30.4 3.76 Ac. **Prv2,3**
- K- Victory Cemetery Association T.M. 11/30.5 2.70 Ac. **Prv2,3**
- L- Wilson & Black T.M. 11/17.1 0.65 Ac.
- M- Wilson & Black T.M. 11/31 2.4 Ac.
- N- Headley T.M. 11/33.1 9.227 Ac. **Four T35B**
- O- Eureka T.M. 11/32 0.88 Ac.
- P- T. Headley T.M. 11/34 0.78 Ac.
- Q- Lancaster T.M. 11/35 1.32 Ac.
- R- Lancaster T.M. 12/1.1 0.298 Ac.
- S- Thomas T.M. 12/1.2 14.702 Ac.
- T- Thomas T.M. 12/67.1 0.095 Ac.
- U- Headley T.M. 11/33 88.92 Ac.
- V- Holiday T.M. 11/30.1 12.0 Ac.
- W- Dotson T.M. 11/5.1 37.0 Ac.
- X- Hoover T.M. 11/17 79.38 Ac. **T3048A**



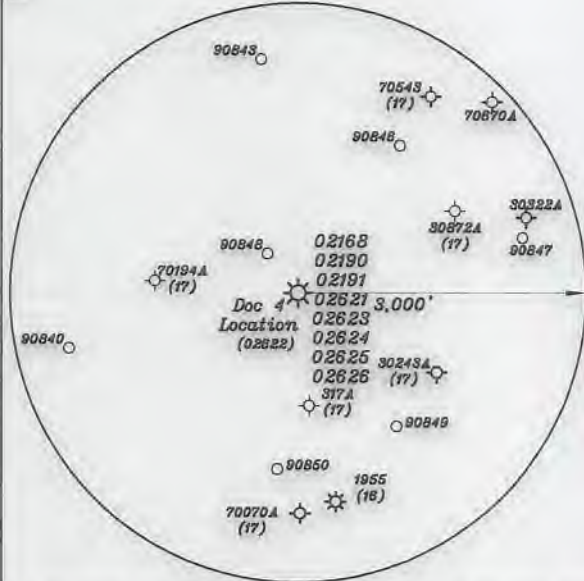
NORTH

BH 6,520'

TH 3,319'

LONGITUDE 80-45-00 W

LONGITUDE 80-45-00 W



Top Hole - TH
 Geo NAD 83- 39.449222 N, 80.768258 W
 UTM NAD 83(Meters)-436654.75 N, 519939.60 E
 UTM NAD 83(Feet)-14328286.45 N, 1705835.16 E

Landing Point - LP
 Geo NAD 83- 39.448493 N, 80.765478 W
 UTM NAD 83(Meters)-436685.50 N, 520178.77 E
 UTM NAD 83(Feet)-14326367.35 N, 1706619.86 E

Bottom Hole - BH
 Geo NAD 83- 39.440433 N, 80.752470 W
 UTM NAD 83(Meters)-436582.95 N, 521300.53 E
 UTM NAD 83(Feet)-14323078.17 N, 1710300.16 E

NUMBER	DIRECTION	DISTANCE
L1	N64°14' E	2,483.9'
L2	N46°07' E	2,895.1'
L3	N83°38' E	791.4'

Top Hole - TH
 Geo NAD 83- 39.449223 N, 80.768259 W
 UTM NAD 83(Meters)-436654.92 N, 519939.38 E
 UTM NAD 83(Feet)-14328287.02 N, 1705834.45 E

Landing Point - LP
 Geo NAD 83- 39.448801 N, 80.764328 W
 UTM NAD 83(Meters)-436688.93 N, 520277.74 E
 UTM NAD 83(Feet)-14326316.14 N, 1706944.56 E

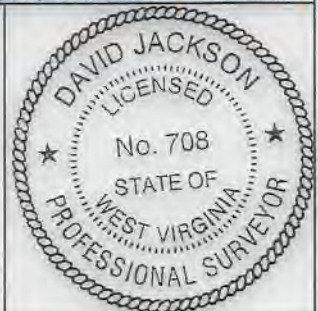
Bottom Hole - BH
 Geo NAD 83- 39.440447 N, 80.752459 W
 UTM NAD 83(Meters)-436584.58 N, 521301.50 E
 UTM NAD 83(Feet)-14323083.49 N, 1710303.35 E

(+) 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 August 05, 2022
 OPERATOR'S WELL NO. Doc 4
 API WELL NO. _____

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

LOCATION: ELEVATION 1,039.9' WATER SHED Indian Creek of Outlet Middle Island Creek (HUC-10)
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Francis W. Tennant Sr. & Randy W. Tustin ACREAGE 46.51 Ac.
 OIL & GAS ROYALTY OWNER Arnold Schulberg LEASE ACREAGE 46.51 Ac.
 LEASE NO. See Above

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 = 6,806'; TMD = 12,158'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Deborah Broda-Morgan
 ADDRESS 16 South Ave. W., Ste 118, Cranford NJ 07016 ADDRESS 429 Simonton Rd., Ellenboro, WV 26346

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