

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

API 47-095-02466 County Tyler District McElroy  
Quad Shirley 7.5' Pad Name Dopey Field/Pool Name \_\_\_\_\_  
Farm name John & Patty Montgomery Well Number Dopey 5  
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.  
Address 3570 Shields Hill Rd. City Cairo State WV Zip 26337

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4365445.36 Easting 519594.37  
Landing Point of Curve Northing 4366043.34 Easting 519534.52  
Bottom Hole Northing 4367645.17 Easting 518422.04

Elevation (ft) 910.3' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

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

Date permit issued 09/15/17 Date drilling commenced 12/24/17 Date drilling ceased 01/15/18  
Date completion activities began 05/17/18 Date completion activities ceased 06/14/18  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug MAY 7 2019

Freshwater depth(s) ft 176.91' Open mine(s) (Y/N) depths N WV Department of Environmental Protection  
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

Reviewed by:  
JEB  
5/29/2019

API 47- 095 - 02466 Farm name John & Patty Montgomery Well number Dopey 5

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	30'	New	J55-40LB/FT		Y
Surface	17 1/2"	13 3/8"	377'	New	J55-32LB/FT	43'&373'	Y
Coal							
Intermediate 1	11"	8 5/8"	2108'	New	J-55/24#	85'&1815'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	13733'	New	P110-17LB/FT		Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	403	15.6	1.1966	482	CTS	8
Coal							
Intermediate 1	Class A	646	15.6	1.1881	768	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	1974	14.5	1.1746	2319	1000'	8
Tubing							

Drillers TD (ft) 13736' Loggers TD (ft) 13736'  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6280'

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

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

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

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_ WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 095 - 02466 Farm name John & Patty Montgomery Well number Dopey 5

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/18/18	13632	13547	72	Marcellus
2	6/26/18	13512	13321	72	Marcellus
3	6/29/18	13286	13137	72	Marcellus
4	6/29/18	13102	12961	72	Marcellus
5	6/30/18	12926	12733	72	Marcellus
6	6/30/18	12698	12531	72	Marcellus
7	7/1/18	12496	12369	72	Marcellus
8	7/1/18	12334	12167	72	Marcellus
9	7/1/18	12132	11965	72	Marcellus
10	7/3/18	11930	11753	72	Marcellus
11	7/3/18	11718	11558	72	Marcellus
12	7/4/18	11523	11357	72	Marcellus
13	7/5/18	11322	11174	72	Marcellus
14	7/5/18	11139	10987	72	Marcellus
15	7/5/18	10987	10769	72	Marcellus
16	7/6/18	10720	10560	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)
1	6/25/18	69.5	7281	7810	3833	215340	7085	N/A
2	6/26/18	64.9	7466	8108	7829	167860	5868	N/A
3	6/29/18	78	7406	8073	5810	214040	6627	N/A
4	6/29/18	54.6	7187	8458	4101	214780	9000	N/A
5	6/30/18	80.1	7167	7651	4067	208200	6596	N/A
6	6/30/18	79.8	6888	7699	4695	177540	6479	N/A
7	7/1/18	78.4	7217	7530	4327	210000	6490	N/A
8	7/1/18	76.1	7169	8790	5043	205280	7107	N/A
9	7/1/18	79	7095	7925	3823	214000	6583	N/A
10	7/3/18	78.7	6920	7932	3819	213320	6890	N/A
11	7/3/18	74.4	7371	8646	4173	219060	6821	N/A
12	7/4/18	65.6	7147	8090	5188	207220	7201	N/A
13	7/5/18	79.7	6891	7315	3155	210400	7056	N/A
14	7/5/18	79.8	7059	7663	3262	214780	6688	N/A
15	7/5/18	77.6	7169	764	3382	215880	6445	N/A
16	7/6/18	78.7	6771	7613	3181	211900	8844	N/A

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Please insert additional pages as applicable.

API 47- 095 - 02466 Farm name John & Patty Montgomery Well number Dopey 5

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	7/7/18	10538	10381	72	Marcellus
18	7/7/18	10392	10162	72	Marcellus
19	7/8/19	10112	9973	72	Marcellus
20	7/8/18	9934	9763	72	Marcellus
21	7/8/18	9722	9570	72	Marcellus
22	7/9/18	9532	9375	72	Marcellus
23	7/9/18	9384	9161	72	Marcellus
24	7/9/18	9122	8981	72	Marcellus
25	7/10/18	8942	8772	72	Marcellus
26	7/10/18	8720	8580	72	Marcellus
27	7/10/18	8536	8389	72	Marcellus
28	7/10/18	8350	8181	72	Marcellus
29	7/11/18	8150	7971	72	Marcellus
30	7/11/18	7940	7802	72	Marcellus
31	7/11/18	7757	7596	72	Marcellus
32	7/12/18	7555	7407	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	7/7/18	79.1	6665	7737	3171	216300	6799	N/A
18	7/7/18	79.6	6585	8737	3272	217980	7046	N/A
19	7/8/18	68.4	6610	7485	3611	215960	6706	N/A
20	7/8/18	80.2	7022	8604	4040	216700	11052	N/A
21	7/8/18	79.8	6523	7369	12758	215840	6497	N/A
22	7/9/18	80	6893	7448	13516	215460	6863	N/A
23	7/9/18	80.4	6556	6958	3669	211514	7331	N/A
24	7/9/18	82.6	6602	6848	4207	212740	6852	N/A
25	7/10/18	82.6	6578	6916	3873	212120	6882	N/A
26	7/10/18	80.3	6450	7335	3306	204660	6719	N/A
27	7/10/18	79.5	8400	7100	4115	214080	7001	N/A
28	7/10/18	82.1	6770	7769	3640	215780	6641	N/A
29	7/11/18	80	6374	7109	3442	213500	6822	N/A
30	7/11/18	79.6	6270	7260	3714	215640	6796	N/A
31	7/11/18	77.1	6365	7448	3690	222080	6956	N/A
32	7/12/18	80.2	6523	7651	4022	213240	6935	N/A

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Please insert additional pages as applicable.

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API 47- 095 - 02466 Farm name John & Patty Montgomery Well number Dopey 5

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	7/12/18	7386	7266	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)
33	7/12/18	81.1	6154	8260	3790	226260	7052	N/A

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6599.6'	TVD	13736' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2850 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 6200 mcfpd Oil   bpd NGL   bpd Water   bpd GAS MEASURED BY  Estimated  Orifice  Pilot

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

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI  
Address 10713 West Sam Houston Parkway North Suite 800 City Houston State TX Zip 770064

Logging Company Appalachian Well Surveys Inc  
Address 10291 Ohio Avenue City Cambridge State OH Zip 43725

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

Stimulating Company FTS International  
Address 7248 John Patterway Jr. BLVD City Shreveport State LA Zip 71129

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Please insert additional pages as applicable.

Completed by Tyler DuFour Telephone 304-628-3111  
Signature  Title Office Manager Date 5/3/19  
MAY 7 2019  
WV Department of Environmental Protection

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: 47-095-02466 County: Tyler  
District: McElroy Well No: Dopey 5  
Farm Name: John & Patty Montgomery

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)

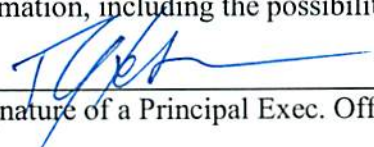
Follow Instructions below to determine your treatment category:

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

Name of Principal Exec. Officer: Tyler DuFour  
Title of Officer: Office Manager  
Date Completed: 5/3/19

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.

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OIL AND GAS RECLAMATION NOTICE

TO:

Name John & Patty Montgomery

Address 107 Basil Drive Weirton, WV 26047

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 - 02466 \_\_\_\_\_;

Acreage 65 Acres \_\_\_\_\_;

Watershed Indian Creek \_\_\_\_\_;

District McElroy \_\_\_\_\_;

County Tyler \_\_\_\_\_;

Public Road Access \_\_\_\_\_;

Generally used farm name John & Patty Montgomery \_\_\_\_\_.

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

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

Well Operator Jay-Bee Oil & Gas, Inc.

Address 3570 Shields Hill Rd.

Cairo, WV 26337

Telephone 304-628-3111

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**Lithology**

Dopey 5

47-095-02466

<b>FORMATION</b>	<b>TOP</b>	<b>BOTTOM</b>
MISC. RED ROCK & SHALES	0	1960
LIME	1960	2060
INJUN	2060	2177
SHALE	2177	2524
GORDON STRAY	2524	2544
SHALE	2544	2740
GORDON	2740	2770
SHALE	2770	3049
BAYARD	3049	3058
SHALE	3058	3387
WARREN	3387	3485
SHALE	3485	3721
BALLTOWN	3721	3884
SHALE	3884	4322
2ND RILEY	4322	4430
SHALE	4430	4581
3RD RILEY	4581	4622
SHALE	4622	4679
BENSON	4679	4682
SHALE	4682	4924
ALEXANDER	4924	5095
SHALE	5095	5340
ELK	5340	5388
SHALE	5388	5717
HAMILTON	5717	5891
SHALE	5891	6547
UPPER MARCELLUS	6547	6570
PARCELL LIME	6570	6605
SHALE	6605	6627
LOWER MARCELLUS	6627	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/25/2018
Job End Date:	7/12/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02466-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Dopey 5
Latitude:	39.43833300
Longitude:	-80.77230300
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,600
Total Base Water Volume (gal):	9,645,972
Total Base Non Water Volume:	67,157



## 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	91.45331	
Other Chemical (s)	Listed Above	See Trade Name (s) List					
			Water	7732-18-5	55.00000	0.01431	

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				Water	7732-18-5	85.00000	0.46268	
				Water	7732-18-5	50.00000	0.04311	
				Water	7732-18-5	55.00000	0.01399	
30/50 White	FTSI	Proppant			Listed Below			
10.1%-15.0% HCL	FTSI	Acid			Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor			Listed Below			
20/40 White	FTSI	Proppant			Listed Below			
100 Mesh Sand	FTSI	Proppant			Listed Below			
ICI-3240	FTSI	Biocide			Listed Below			
FRW-1450	FTSI	Friction Reducer			Listed Below			

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CS-1000 SI	FTSI	Scale Inhibitor											
					Listed Below								
SPB-1	FTSI	Breaker											
					Listed Below								
HVG-1 4.0	FTSI	Water gelling agent											
					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				4.30621			
				Silica, Quartz	14808-60-7	100.00000				2.82383			
				Silica, Quartz	14808-60-7	100.00000				0.72153			
				Hydrogen Chloride	7647-01-0	15.00000				0.08165			
				Cationic Polyacrylamide	9003-05-8	30.00000				0.02587			
				Distillates (petroleum), hydrotreated light	64742-47-8	30.00000				0.02587			
				Phosphonic Acid, (Nitrilotris (methylene)) Tris	6419-19-8	35.00000				0.00890			
				Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4	24.00000				0.00624			
				Petroleum Distillate	64742-47-8	55.00000				0.00601			
				Raffinates, Sorption Process	64741-85-1	55.00000				0.00601			
				Guar gum	9000-30-0	55.00000				0.00601			
				Sodium Hydroxide	1310-73-2	23.00000				0.00598			
				Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000				0.00431			
				Phosphonic Acid, ((Dimethylamino) Methylene) Bis -	29712-30-9	5.00000				0.00127			

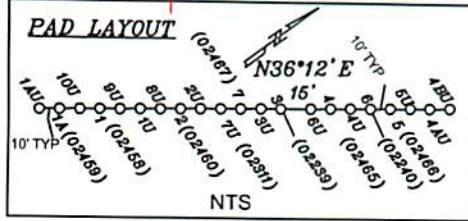
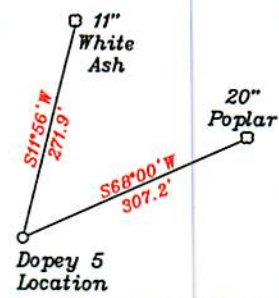
					10486-00-7	98.00000	0.00121
			Sodium Perborate Tetrahydrate				
			Methanol		67-56-1	90.00000	0.00086
			Suspending Agent		1302-78-9	5.00000	0.00055
			Phosphorous Acid		10294-56-1	2.00000	0.00051
			Quartz		14808-60-7	4.00000	0.00044
			Isotridecanol, ethoxylated		9043-30-5	2.00000	0.00022
			Orthophosphoric acid		7664-38-2	0.75000	0.00019
			Thiourea-formaldehyde Copolymer		68527-49-1	10.00000	0.00010
			Alcohol Ethoxylate Surfactants		Proprietary	10.00000	0.00010
			Fatty Acids, Tall Oil		61790-12-3	10.00000	0.00010
			Propargyl Alcohol		107-19-7	5.00000	0.00005
			N-olefins		Proprietary	3.00000	0.00003
			Sodium Metaborate		7775-19-1	1.40000	0.00002
			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 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

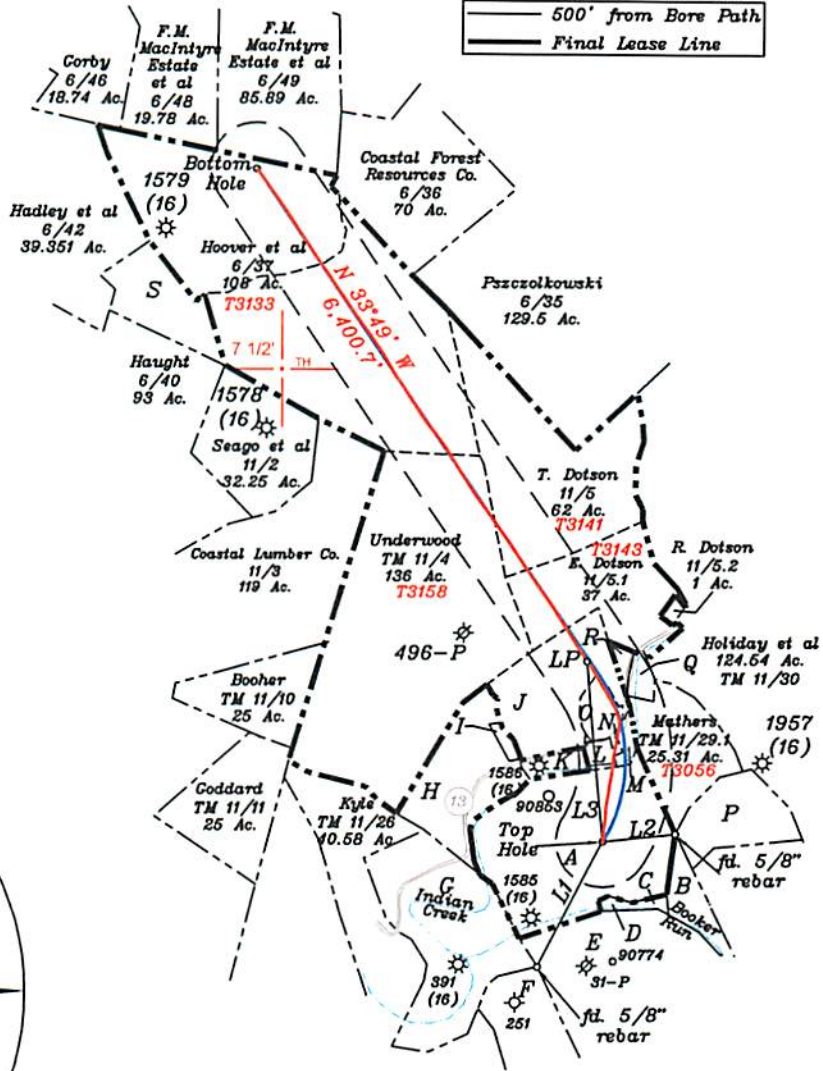
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References

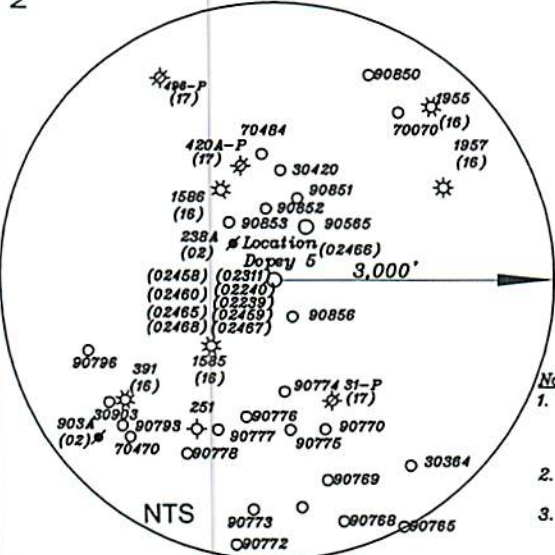


Top Hole	UTM NAD83(meter)-4365445.48 N. 519594.48 E
Landing Point	UTM NAD83(meter)-4366003.24 N. 519571.00 E
Bottom Hole	UTM NAD83(meter)-4367646.12 N. 518422.96 E
Top Hole	UTM NAD83(meter)-4365445.36 N. 519594.37 E
Landing Point	UTM NAD83(meter)-4366043.34 N. 519534.52 E
Bottom Hole	UTM NAD83(meter)-4367645.17 N. 518422.04 E

- A- Montgomery TM 11/27 65 Ac. T3056A
- B- Woodburn et al TM 11/44 6.75 Ac.
- C- Woodburn et al TM 11/45 0.755 Ac.
- D- Woodburn et al TM 11/44 1.5 Ac.
- E- Kile Estate TM 11/36 57 Ac.
- F- Davis TM 11/41 18.82 Ac.
- G- Kile Estate TM 11/36.1 50 Ac. T3055B
- H- Woodburn et al TM 11/13 30.05 Ac.
- I- Woodburn TM 11/13.1 1.2 Ac. T3052
- J- Tallman TM 11/14.3 28.631 Ac. T3052A
- K- Montgomery TM 11/14 2.18 Ac. T3052A
- L- Vincent TM 11/14.4 1.82 Ac. T3052A
- M- Ritter (Life) TM 11/29 1.63 Ac. T3052A
- N- Stillson TM 11/28 0.37 Ac.
- O- Tallman TM 11/14.5 5.135 Ac. T3052A
- P- Woodburn et al TM 11/43 35 Ac.
- Q- Holliday TM 11/30.2 0.56 Ac.
- R- Woodburn et al TM 11/41.2 2 Ac.
- S- Coastal Forest Resources Co. TM 6/39 23 Ac.



NORTH



Notes:

1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
2. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
3. No water wells were found within 250' of the well location. A house was found N55°54'W 614.3' from the center of the well pad.

NUMBER	DIRECTION	DISTANCE
L1	N 27°12' E	1,519.0'
L2	S 84°03' W	780.1'
L3	N 04°46' E	1,972.3'

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 February 12, 2019  
 OPERATOR'S WELL NO. Dopey 5  
 API WELL NO. 47 - 095 - 02466

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ STATE COUNTY PERMIT  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Shirley 7 1/2'  
 SURFACE OWNER John & Patty Montgomery ACREAGE 65 ac.  
 OIL & GAS ROYALTY OWNER & LEASE NO. See Above for Lease Numbers

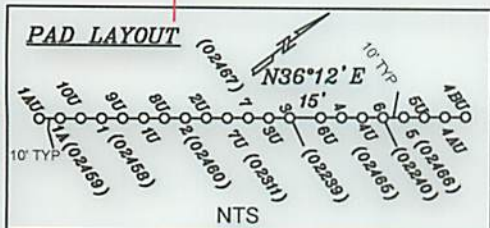
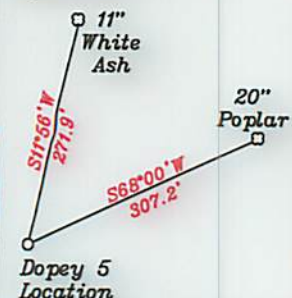
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ASDRILLED  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,599.6'; TMD = 13,736'  
 WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
 ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337

LONGITUDE 80-45-00 W

Top Hole 7,225'

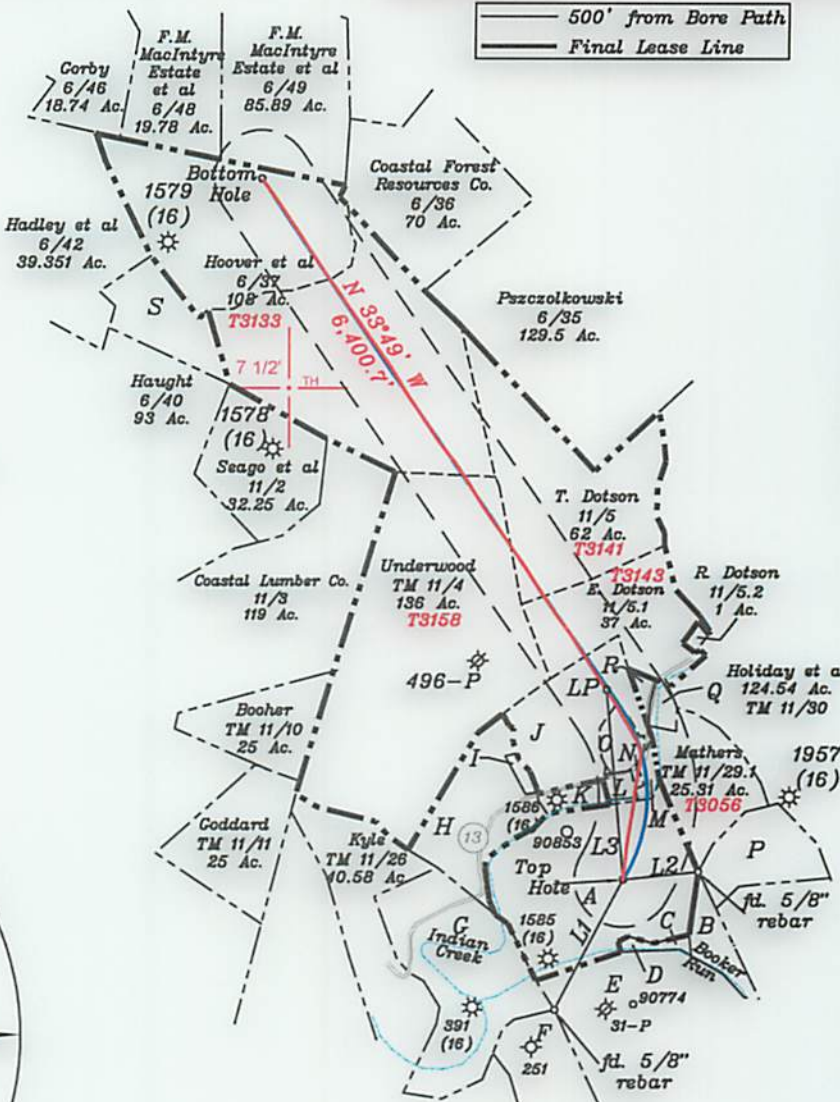
Bottom Hole 56'

References

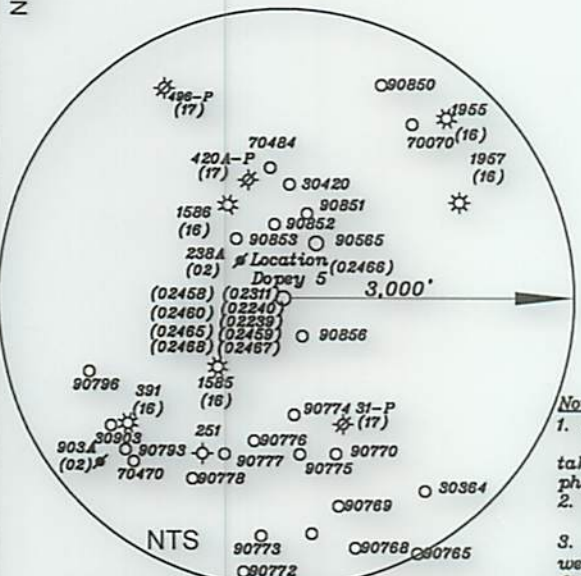


Top Hole	UTM NAD83(meter)-4365445.48 N. 519594.48 E
Landing Point	UTM NAD83(meter)-4366003.24 N. 519571.00 E
Bottom Hole	UTM NAD83(meter)-4367646.12 N. 518422.96 E
Top Hole	UTM NAD83(meter)-4365445.36 N. 519594.37 E
Landing Point	UTM NAD83(meter)-4366043.34 N. 519534.52 E
Bottom Hole	UTM NAD83(meter)-4367645.17 N. 518422.04 E

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- C- Woodburn et al TM 11/45 0.755 Ac.
- D- Woodburn et al TM 11/44 1.5 Ac.
- E- Kile Estate TM 11/36 57 Ac.
- F- Davis TM 11/41 18.82 Ac.
- G- Kile Estate TM 11/36.1 50 Ac. T3055B
- H- Woodburn et al TM 11/13 30.05 Ac.
- I- Woodburn TM 11/13.1 1.2 Ac. T3052
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- K- Montgomery TM 11/14 2.18 Ac. T3052A
- L- Vincent TM 11/14.4 1.82 Ac. T3052A
- M- Ritter (Life) TM 11/29 1.63 Ac. T3052A
- N- Stillson TM 11/28 0.37 Ac.
- O- Tallman TM 11/14.5 5.135 Ac. T3052A
- P- Woodburn et al TM 11/43 35 Ac.
- Q- Holliday TM 11/30.2 0.56 Ac.
- R- Woodburn et al TM 11/41.2 2 Ac.
- S- Coastal Forest Resources Co. TM 6/39 23 Ac.



NORTH



Notes:

1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
2. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
3. No water wells were found within 250' of the well location. A house was found N55°54'W 614.3' from the center of the well pad.

AS-DRILLED LEC
PROPOSED LEC

NUMBER	DIRECTION	DISTANCE
L1	N 27°12' E	1,519.0'
L2	S 84°03' W	780.1'
L3	N 04°46' E	1,972.3'

(+) 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

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



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

DATE February 12, 2019  
 OPERATOR'S WELL NO. Dopey 5  
 API WELL NO. 47 095 02466

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ STATE COUNTY PERMIT  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Shirley 7 1/2'  
 SURFACE OWNER John & Patty Montgomery ACREAGE 65 ac.  
 OIL & GAS ROYALTY OWNER & LEASE NO. See Above for Lease Numbers

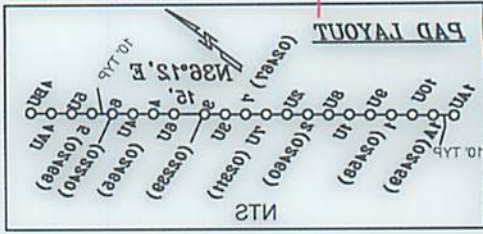
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ASDRILLED

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,599.6'; TMD = 13,736'  
 WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
 ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337

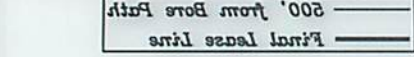
LONGITUDE 80-45-00 W

Bottom Hole 56'

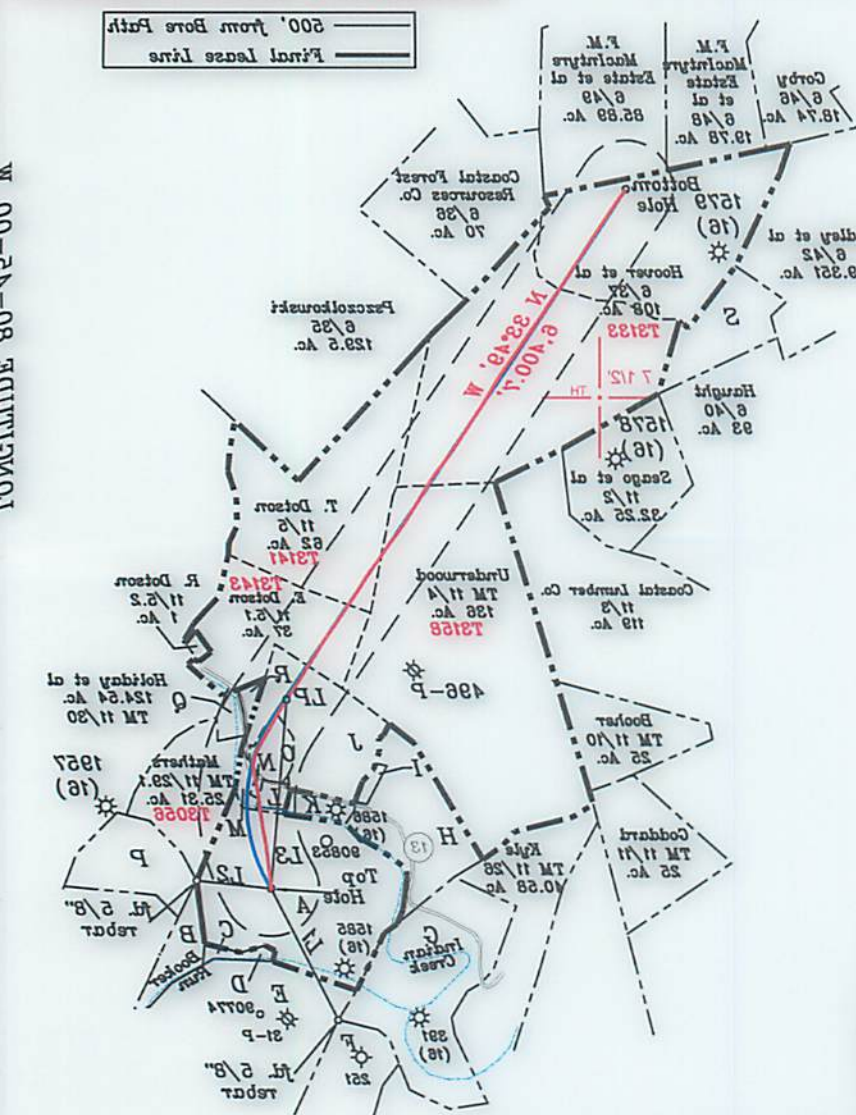
Top Hole 7,225'



UTM NAD83 (meter) -4367845.17 N 518425.04 E	Bottom Hole
UTM NAD83 (meter) -4368043.34 N 518234.52 E	Landmark Point
UTM NAD83 (meter) -4368445.38 N 518594.37 E	Top Hole
UTM NAD83 (meter) -4367845.15 N 518425.98 E	Bottom Hole
UTM NAD83 (meter) -4368003.34 N 518271.00 E	Landmark Point
UTM NAD83 (meter) -4368445.48 N 518594.48 E	Top Hole



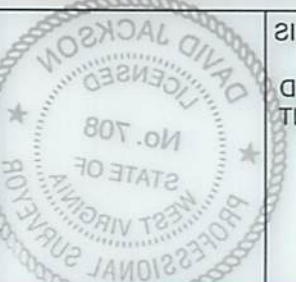
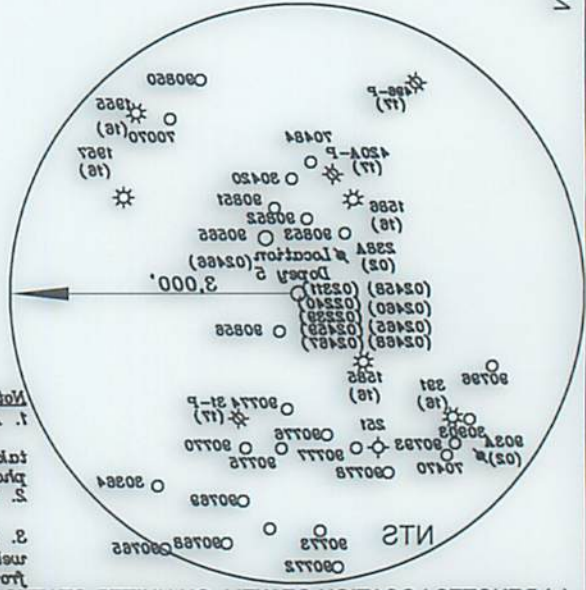
LONGITUDE 80-42-00 W



NUMBER	DIRECTION	DISTANCE
L1	N 37°12' E	1,418.0'
L2	S 84°03' W	780.1'
L3	N 04°18' E	1,972.3'

**Notes:**  
 1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.  
 2. Ties to wells and corners are based on State P lane Grid North-WV North Zone NAD 83.  
 3. No water wells were found within 250' of the well location. A horse was found N55°54' W 614.3' from the center of the well pad.

- A - Montgomery TM 11/27 65 Ac. T3055A
- B - Woodburn et al TM 11/44 6.75 Ac.
- C - Woodburn et al TM 11/45 0.75 Ac.
- D - Woodburn et al TM 11/44 1.5 Ac.
- E - Kile Estate TM 11/38 57 Ac.
- F - Davis TM 11/18 82 Ac.
- G - Kile Estate TM 11/38 1 50 Ac. T3055B
- H - Woodburn et al TM 11/13 30.05 Ac. T3052
- I - Woodburn TM 11/13 1.5 Ac. T3052
- J - Tallman TM 11/43 28.631 Ac. T3052A
- K - Montgomery TM 11/44 2.18 Ac. T3052A
- L - Virent TM 11/44 1.82 Ac. T3052A
- M - Ritter (L&J) TM 11/29 1.63 Ac. T3052A
- N - Stillson TM 11/28 0.37 Ac. T3052A
- O - Tallman TM 11/44 2.135 Ac. T3052A
- P - Woodburn et al TM 11/43 35 Ac.
- Q - Holiday TM 11/30 0.58 Ac.
- R - Woodburn et al TM 11/41 1.2 Ac.
- S - Coastal Forest Resources Co. TM 8/39 23 Ac.



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 S. Jackson*  
 R.P.E. P.S. 708

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION GPS  
 submitted with

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

WELL TYPE: OIL GAS  LIQUID INJECTION  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  X  
 LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)  
 DISTRICT McHenry  
 QUADRANGLE Shirley 7 1/2'  
 SURFACE OWNER John & Patty Montgomery  
 OIL & GAS ROYALTY OWNER & LEASE NO. \_\_\_\_\_  
 See Above for Lease Numbers  
 ACREAGE 65 ac.  
 COUNTY Tyler  
 STATE COUNTY PERMIT 03468  
 API WELL NO. 47  
 OPERATOR'S WELL NO. Dopey 5  
 DATE February 12, 2019  
 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 = 6,299.6'; TMD = 13,736'  
 WELL OPERATOR Jay Bee Oil & Gas, Inc.  
 DESIGNATED AGENT Randy Broda  
 ADDRESS 3570 Shields Hill Road, Cairo, WV 26837