

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

RECEIVED
Office of Oil and Gas

JAN 24 2022

WV Department of
Environmental Protection

API 47 - 073 - 02595 County Pleasants District Union
Quad Ben's Run 7.5' Pad Name P5 Field/Pool Name Arvilla
Farm name BB Land LLC Well Number P5N2U
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.
Address 16 South Avenue W Suite 118 City Cranford State New Jersey Zip 07016

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 337358.06 Easting 1523509.78
Landing Point of Curve Northing 337801.98 Easting 1523068.48
Bottom Hole Northing 348776.57 Easting 1517462.89

Elevation (ft) 868.1' 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 XL, Anco Mul Mod
Anco Mul OW, Claytone 3, Lime, Calcium Chloride Powder, Phalt S, Mica, Cal-Carb

Date permit issued 7/16/2019 Date drilling commenced 8/17/2019 Date drilling ceased 9/24/2019
Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 126' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1708' 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:
DCN
5/13/2022

API 47-073 - 02595 Farm name BB Land LLC Well number N2U

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	N/A	N/A	Grouted from Surface
Surface	22"	18 5/8"	312'	New	J-55 87.5#	41' & 298'	Y
Coal							
Intermediate 1	17.5"	13 3/8"	2139'	New	J-55 61#	2101 & 288'	Y
Intermediate 2	12 1/4"	9 5/8"	9156'	New	HCP 110 47#	8981' 5583' 2106'	Y
Intermediate 3							
Production	8.5"	5.5"	22869'	New	P110 23#	N/A	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	Class A						
Surface	Class A	481	15.6	1.1966	576	CTS	8 hrs
Coal							
Intermediate 1	Class A	1518	15.6	1.1859	1800	CTS	8 hrs
Intermediate 2	Class A	Lead 1236 Tail 396	Lead 12.5 Tail 15	L 2.3085 T1.3259	3105	CTS	8 hrs
Intermediate 3							
Production	Class H	4176	15.6	1.1821	4937	2612'	8 hrs
Tubing							

Drillers TD (ft) ^{23165'} _____ Loggers TD (ft) ^{22869'} _____
 Deepest formation penetrated ^{Point Pleasant/Utica} _____ Plug back to (ft) ^{N/A} _____
 Plug back procedure ^{N/A} _____

Kick off depth (ft) ^{9582'} _____

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING ^{Steel body centralizer placed every 90' in lateral} _____
 90-70 degrees steel body centralizer every second joint _____
 70 degrees to KOP steel body centralizer every 3rd joint _____
 KOP to Surface Bow spring centralizer 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- 073 - 02595 Farm name BB Land LLC Well number P5N2U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11-17-20	22738	22618	84	Point Pleasant
2	11-17-20	22558	22396	84	Point Pleasant
3	11-17-20	22350	22136	84	Point Pleasant
4	11-18-20	22098	21935	84	Point Pleasant
5	11-18-20	21883	21730	84	Point Pleasant
6	11-18-20	21662	21486	84	Point Pleasant
7	11-19-20	21434	21290	84	Point Pleasant
8	11-19-20	21226	21090	84	Point Pleasant
9	11-20-20	21032	20894	84	Point Pleasant
10	11-20-20	20842	20712	84	Point Pleasant
11	11-20-20	20658	20506	84	Point Pleasant
12	11-20-20	20444	20323	84	Point Pleasant
13	11-21-20	20272	20127	84	Point Pleasant
14	11-21-20	20076	19918	84	Point Pleasant
15	11-21-20	19881	19743	84	Point Pleasant
16	11-22-20	19710	19546	84	Point Pleasant

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	11-17-20	68.6	10412	11321	6318	470580	11825	N/A
2	11-17-20	69.5	10367	11212	6285	470500	10185	N/A
3	11-17-20	70.5	10448	11285	6209	470760	11142	N/A
4	11-18-20	73.2	10629	11410	6485	470330	10224	N/A
5	11-18-20	72.8	10539	11228	6819	470340	10180	N/A
6	11-18-20	73.3	10583	11319	6299	470690	9480	N/A
7	11-19-20	74.2	10320	11264	6412	470330	10046	N/A
8	11-19-20	73.3	10583	11311	6813	470880	10204	N/A
9	11-20-20	75.6	10182	10899	6842	470750	9333	N/A
10	11-20-20	75.1	10274	10864	7094	470920	9883	N/A
11	11-20-20	75.3	10221	10917	6566	470560	9729	N/A
12	11-20-20	76.3	10187	10876	6510	471380	9261	N/A
13	11-21-20	75.2	10248	10946	6609	470910	9006	N/A
14	11-21-20	75.6	10270	10888	6627	470970	9303	N/A
15	11-21-20	75.8	10254	10911	6522	470810	9077	N/A
16	11-22-20	75.5	10224	10872	9718	470320	9112	N/A

Please insert additional pages as applicable.

API 47- 073 - 02595

Farm name BB Land LLC

Well number P5N2U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	11-22-20	19503	19360	84	Point Pleasant
18	11-23-20	19331	19170	84	Point Pleasant
19	11-24-20	19129	18974	84	Point Pleasant
20	11-24-20	18932	18803	84	Point Pleasant
21	11-24-20	18762	18612	84	Point Pleasant
22	11-24-20	18550	18411	84	Point Pleasant
23	11-25-20	18358	18206	84	Point Pleasant
24	11-25-20	18168	17990	84	Point Pleasant
25	11-25-20	17929	17800	84	Point Pleasant
26	11-26-20	17718	17607	84	Point Pleasant
27	11-27-20	17551	17416	84	Point Pleasant
28	11-27-20	17367	17222	84	Point Pleasant
29	11-28-20	17144	16970	84	Point Pleasant
30	11-28-20	16909	16750	84	Point Pleasant
31	11-28-20	16711	16555	84	Point Pleasant
32	11-28-20	16515	16368	84	Point Pleasant

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	11-22-20	75.1	10353	11027	6758	470220	9719	N/A
18	11-23-20	74.6	10289	10843	6759	470520	9130	N/A
19	11-24-20	74.8	10138	10757	6790	431940	8444	N/A
20	11-24-20	76.5	10143	10649	6861	470620	10887	N/A
21	11-24-20	76.7	10139	10583	6812	470740	9468	N/A
22	11-24-20	75.3	10126	10499	6867	440640	8436	N/A
23	11-25-20	75.8	10043	10367	6931	470460	8795	N/A
24	11-26-20	75.6	10244	10583	6851	470730	9272	N/A
25	11-25-20	76	10225	10612	6911	470660	8955	N/A
26	11-26-20	75.7	10411	10836	6966	470590	9306	N/A
27	11-27-20	75.8	10258	10799	6973	470420	9366	N/A
28	11-27-20	75.2	10089	10823	7027	470760	9312	N/A
29	11-28-20	76.2	10310	10957	7118	440470	8383	N/A
30	11-28-20	76.3	10232	10888	6712	470340	9151	N/A
31	11-28-20	76.1	10182	10653	7083	470980	9108	N/A
32	11-28-20	75.4	9949	10444	7124	470120	8740	N/A

Please insert additional pages as applicable.

API 47- 073 - 02595

Farm name BB Land LLC

Well number P5N2U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	11-29-20	16298	16160	84	Point Pleasant
34	11-29-20	16114	15972	84	Point Pleasant
35	11-29-20	15927	15817	84	Point Pleasant
36	11-29-20	15769	15656	84	Point Pleasant
37	11-30-20	15615	15496	84	Point Pleasant
38	11-30-20	15450	15292	84	Point Pleasant
39	11-30-20	15260	15119	84	Point Pleasant
40	11-30-20	15070	14926	84	Point Pleasant
41	11-30-20	14852	14636	84	Point Pleasant
42	12-1-20	14594	14370	84	Point Pleasant
43	12-1-20	14313	14115	84	Point Pleasant
44	12-1-20	14020	13901	84	Point Pleasant
45	12-2-20	13858	13721	84	Point Pleasant
46	12-2-20	13643	13523	84	Point Pleasant
47	12-2-20	13475	13328	84	Point Pleasant
48	12-3-20	13273	13142	84	Point Pleasant

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	11-29-20	75.8	9506	10228	7124	469630	8705	N/A
34	11-29-20	75.6	9566	10311	7429	458230	8915	N/A
35	11-29-20	75.8	9347	10219	7071	470620	9225	N/A
36	11-29-20	75.1	9209	10189	6999	470930	8417	N/A
37	11-30-20	76.3	9213	10090	6881	470700	8542	N/A
38	11-30-20	74.8	9267	10122	6978	470910	9153	N/A
39	11-30-20	76.1	9122	10097	6894	470730	9122	N/A
40	11-30-20	76.2	9616	10322	7164	440640	8809	N/A
41	11-30-20	75.6	9486	10227	6968	470800	8448	N/A
42	12-1-20	75.6	9552	10311	6897	461520	8259	N/A
43	12-1-20	76.1	9658	10423	6729	470360	9104	N/A
44	12-1-20	75.8	9511	10394	6814	470310	9096	N/A
45	12-2-20	71.3	9803	10687	6927	466900	9061	N/A
46	12-2-20	75.9	9734	10555	7189	471230	9154	N/A
47	12-2-20	75.7	9579	10319	7028	470030	8356	N/A
48	12-3-20	76	9572	10295	6969	470010	9017	N/A

Please insert additional pages as applicable.

API 47- 073 - 02595

Farm name BB Land LLC

Well number P5N2U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
49	12-3-20	13080	12934	84	Point Pleasant
50	12-3-20	12884	12766	84	Point Pleasant
51	12-4-20	12700	12574	84	Point Pleasant
52	12-4-20	12525	12359	84	Point Pleasant
53	12-4-20	12324	12189	84	Point Pleasant
54	12-4-20	12111	11942	84	Point Pleasant
55	12-5-20	11867	11650	84	Point Pleasant
56	12-5-20	11580	11451	84	Point Pleasant
57	12-5-20	11402	11217	84	Point Pleasant
58	12-6-20	11168	11055	84	Point Pleasant
59	12-6-20	10990	10854	84	Point Pleasant
60	12-6-20	10786	10612	84	Point Pleasant

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)
49	12-3-20	76.1	9630	10215	7003	470450	9070	N/A
50	12-3-20	76.5	9537	10199	7358	470940	9112	N/A
51	12-4-20	75.8	9399	10073	7158	470310	8507	N/A
52	12-4-20	75.9	9404	10207	7108	471000	8478	N/A
53	12-4-20	75.9	9424	10122	7319	470540	9069	N/A
54	12-4-20	74.8	9432	10014	7128	470900	8452	N/A
55	12-5-20	75	9229	9983	7177	470210	8612	N/A
56	12-5-20	76.3	9616	10125	6995	470880	8984	N/A
57	12-5-20	76.5	9502	10046	7158	470970	8908	N/A
58	12-6-20	75.1	9535	10158	7358	470630	8529	N/A
59	12-6-20	75.2	9405	9859	7125	469015	8547	N/A
60	12-6-20	76.1	9783	10310	7311	471000	8903	N/A

Please insert additional pages as applicable.

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: 47-073-02595 County: Pleasants
District: Union Well No: P5N4U
Farm Name: BB Land, LLC
Discharge Date/s From:(MMDDYY) _____ To: (MMDDYY) _____
Discharge Times. From: _____ To: _____
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? _____ 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 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 If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) N 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 If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. N is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: n/a

Name of Principal Exec. Officer: Lisa Cattafesta

Title of Officer: Landman

Date Completed: 1-18-2022

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.

Lisa Cattafesta

Signature of a Principal Exec. Officer or Authorized agent.

05/13/2022

This is not applicable.

Category 1
Sampling Results

API No : 47-073-02595

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

*** Al is only reported if the pH is above 9.0

Category 2
Sampling Results

API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0

This is not applicable.

Category 3
Sampling Results

API No : 47-073-02595

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0.

Category 4
Sampling Results

API No: _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon (0.175)		_____	N/A	N/A	lb/B1
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

05/13/2022

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- 073 , 02595 ;
Acreage 165.0 ;
Watershed Sugar Creek of Outlet Middle Island Creek (HUC-10) ;
District Union ;
County Pleasants ;
Public Road Access Arvilla Road ;
Generally used farm name BB Land, LLC .

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

P5 Pad Lithology	
ELEVATION	868'
FORMATION	TOP
INJUN	1920
GORDON	2668
HAMILTON	5228
UPPER Marcellus	5702
PARCELL LME	5713
LOWER MARCELLUS	5609
Onondaga	5815
Oriskany	6031
Bass Islands	6509
Salina	6565
Wills Creek	7198
Lockport	7438
McKenzie	7652
Rose Hill	7741
Packer Shell	8017
Clinton-Medina	8110
Queenston	8294
Reedsville	9086
Utica	9992
Point Pleasant SH	10136
Trenton	10303

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/16/2020
Job End Date:	12/6/2020
State:	West Virginia
County:	Pleasants
API Number:	47-073-02595-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	P5 N2U
Latitude:	39.41552350
Longitude:	-81.07515000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,770
Total Base Water Volume (gal):	23,128,476
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

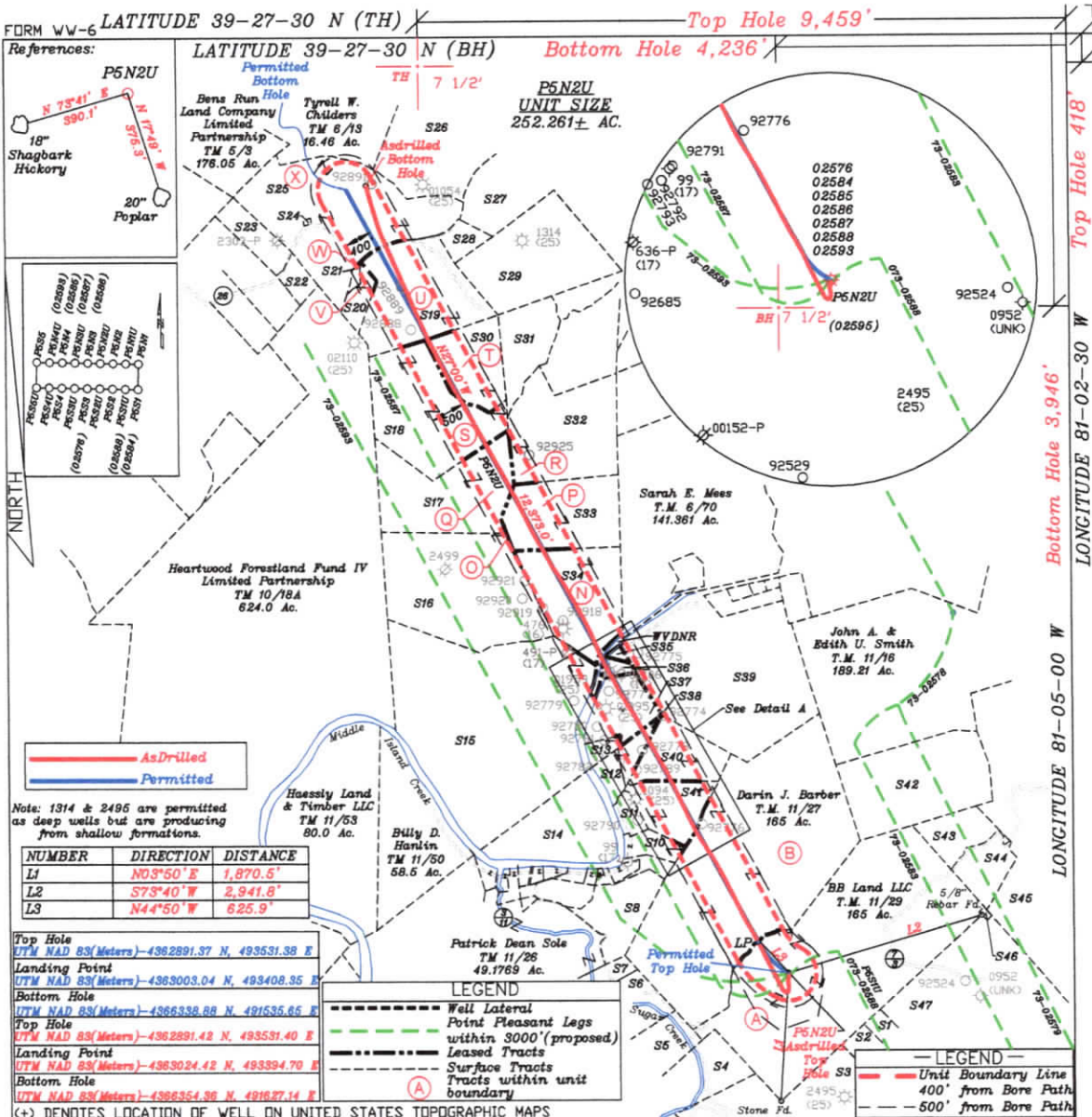
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Jay-Bee Oil and Gas	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.76651	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	5.39956	None
Sand(30/50 Mesh) Proppant	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	4.81783	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	2.15972	None
Hydrochloric Acid (15%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.40177	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.17489	None
Sand(30/50 Carbolite)	Jay-Bee Oil and Gas	Proppant	Mullite	1302-93-8	85.00000	0.22178	None
			Silicon Dioxide, (amorphous as glass)	7631-86-9	35.00000	0.09132	None
			Silica Crystalline-Cristobalite	14464-46-1	20.00000	0.05218	None

ProSlick 100	EES	Friction Reducer	Hydrotreated Light Petroleum Distillate	64742-47-8	30.00000	0.02479	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00413	None
ProCheck 100	EES	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.01639	None
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00182	None
Bioclear 1430	EES	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00357	None
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride Dimethylamine	68424-85-1	5.00000	0.00089	None
				68439-70-3	0.50000	0.00009	None
ProVis 4.0	EES	Gel	Guar Gum	9000-30-0	55.00000	0.00173	None
			Petroleum Disulfate	64742-47-8	55.00000	0.00173	None
			Suspending agent	1302-78-9	5.00000	0.00016	None
ProHib 100	ProFrac	Acid Inhibitor	2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00014	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.40177	
			Mullite	1302-93-8	85.00000	0.22178	
			Silica Crystalline-Cristoballite	14464-46-1	20.00000	0.05218	
			Non-hazardous substances	Proprietary	90.00000	0.01639	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00413	
			Glutaraldehyde	111-30-8	20.00000	0.00357	
			Guar Gum	9000-30-0	55.00000	0.00173	
			Suspending agent	1302-78-9	5.00000	0.00016	
			Dimethylamine	68439-70-3	0.50000	0.00009	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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)



Note: 1314 & 2495 are permitted as deep wells but are producing from shallow formations.

NUMBER	DIRECTION	DISTANCE
L1	N03°50' E	1,870.5'
L2	S73°40' W	2,941.8'
L3	N44°50' W	625.9'

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

Top Hole	UTM NAD 83 (Meters) - 4362891.37 N, 493531.38 E
Landing Point	UTM NAD 83 (Meters) - 4363003.04 N, 493408.35 E
Bottom Hole	UTM NAD 83 (Meters) - 4366338.88 N, 491635.65 E
Top Hole	UTM NAD 83 (Meters) - 4362891.43 N, 493531.40 E
Landing Point	UTM NAD 83 (Meters) - 4363024.42 N, 493394.70 E
Bottom Hole	UTM NAD 83 (Meters) - 4366354.38 N, 491637.14 E

LEGEND

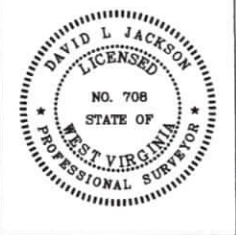
- Well Lateral
- Point Pleasant Legs within 3000' (proposed)
- Leased Tracts
- Surface Tracts
- Tracts within unit boundary

LEGEND

- Unit Boundary Line
- 400' from Bore Path
- 500' from Bore Path

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 January 05, 2022
OPERATOR'S WELL NO. P5N2U
API WELL NO. _____

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

LOCATION: ELEVATION 868.5' WATER SHED Sugar Creek of Outlet Middle Island Creek (HUC-10)
DISTRICT Union COUNTY Pleasants
QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER BB Land LLC ACREAGE 165.0 Ac.
OIL & GAS ROYALTY OWNER Jay-Bee Royalty LEASE ACREAGE 165.0 Ac.
LEASE NO. P7207

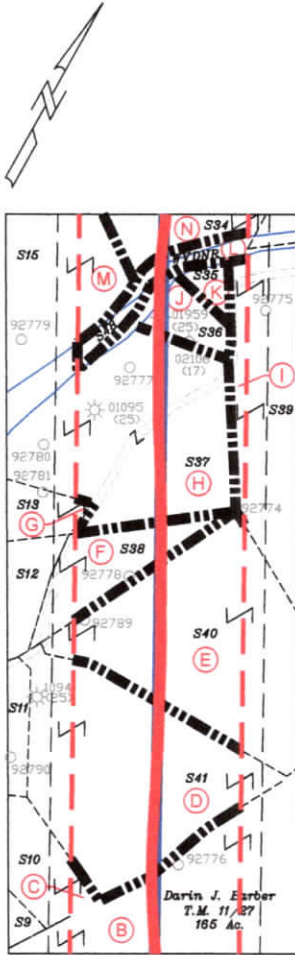
PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ASDRILLED

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD = 10,185'; TMD = 23,168'
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

05/13/2022

JACKSON SURVEYING
INC.
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

P5N2U
UNIT SIZE
252.261± AC.



TRACT	SURFACE OWNER	TM PARCEL Union Dist.	ACRES
S1	MATTHEW A. & DAWNA M. TAYLOR	11 / 43	18.6
S2	MATTHEW A. & DAWNA M. TAYLOR	11 / 44	25.8
S3	MELANIE JO MANUSE REVOCABLE TRUST	11 / 41	123.27
S4	GOLDEN EAGLES RESOURCES LLC & HUMMER PROPERTIES LLC	11 / 40	62.063
S5	MAX E. & LINDA L. HALL & CLINTON HALL JR	11 / 34	38.33
S6	GOLDEN EAGLE RESOURCES LLC	11 / 35	30.893
S7	EDWARD W. JEFFREY L. WILLIAMSON	11 / 33	14.25
S8	KENNETH G. & DORIS A. HOLMES	11 / 25.12	21.267
S9	JOSHUA S. & ABIGAIL K. HOLMES	11 / 25.14	2.268
S10	RONALD S. & VICKIE L. HOLMES	11 / 25.11	0.75
S11	EMMA JULIA FELL MIXER	11 / 25	5.033
S12	GARY BURIAN	11 / 2	6.1
S13	EDWARD B. & MELISSA K. HOLMES	11 / 3.2	3.447
S14	KENNETH G. HOLMES, ET AL	11 / 25.7	40.88
S15	E. K. WILLIAMSON, EST.	11 / 1	157.5
S16	BB LAND, LLC	6 / 66	85.0
S17	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	6 / 64	60.0
S18	LOUIE A. STANLEY	6 / 37	60.0
S19	CHARLES R. & BETH ANN MANKINS	6 / 30	45.0
S20	DAVID ROGER & PATTY SUE MCCARTNEY	6 / 30.1	6.0
S21	DAVID ROGER & PATTY SUE MCCARTNEY	6 / 31	0.75
S22	NATHAN WADE BENNETT	6 / 109	5.011
S23	TIMOTHY R. & PAMELA J. NICHOLS	5 / 38	11.21
S24	CEMETERY	p/o 6 / 100	-
S25	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	6 / 100	84
S26	RODNEY A. & TRUDY L. PETHTEL	6 / 14	29.885
S27	BENNY E. & NANCY J. DALRYMPLE	6 / 26	20.697
S28	RICHARD L. LEWIS JR. & BERYLANN LEWIS	6 / 32	6.08
S29	SILTSTONE RESOURCES II, LLC	6 / 33	51.478
S30	CHARLES R. & BETH ANN MANKINS	6 / 38	23.5
S31	CHARLES R. & BETH ANN MANKINS	6 / 39	25.5
S32	HAESSLY LAND & TIMBER, LLC	6 / 65	47.5
S33	ROBERT WILLIAM BUTLER, ET AL	6 / 67	37.0
S34	ROBERT WILLIAM BUTLER, ET AL	6 / 103	38.93
S35	ROGER Q. & KIMBERLY A. HOLMES, ET AL	11 / 4	1.0
S36	ROGER Q. & KIMBERLY A. HOLMES, ET AL	11 / 3.1	1.75
S37	KENNETH G. HOLMES, ET AL	11 / 3	18.45
S38	EMMA JULIA FELL MIXER	11 / 25.2	4.687
S39	ROGER Q. & KIMBERLY A. HOLMES	11 / 5	111.0
S40	ROGER Q. & KIMBERLY A. HOLMES	11 / 25.9	20.53
S41	MARVIN E. & SANDRA K. LAMM	11 / 25.10	19.29
S42	BB LAND, LLC	11 / 28	56.5
S43	JAY BEE OIL & GAS, INC.	11 / 30	25.14
S44	JAY BEE OIL & GAS, INC.	11 / 31	13.11
S45	LARRY WILLIAM HORNER, ET AL	11 / 32	231.82
S46	GARDNER CEMETERY	11 / 45.1	0.39
S47	MATTHEW A. & DAWNA M. TAYLOR	11 / 45	94.61
S48	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	MIDDLE ISLAND CREEK	2.17



P.S. 708
David L Jackson

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. No dwellings or buildings were found within 825' from the center of the pad. No perennial stream is located within 100' of the LOD. No producing trout stream is located within 300' of the LOD.
4. All deep wells within 3000' of well bore path are shown on this plat.

Jay Bee
Oil & Gas
DRILLING
into the future

OPERATOR'S WELL #: P5N2U	P5N2U Well Plat
PERMIT#: 047-073-02595	PAGE 2 OF 4
DISTRICT: UNION	DATE: 01/05/2022
COUNTY: PLEASANTS	
STATE: WV	

05/13/2022

JACKSON SURVEYING
INC.
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

P5N2U
UNIT SIZE
252.261± AC.

Tracts	Tax Map/Parcel Union District	Lease #	Lessor, Grantor, etc
A	11/29	P7207	Jay Bee Royalty
B	11/27	P7206	Hazel Bunner
B	11/27	P7206	Antero Resources Corp
B	11/27	P7206	Jay Bee Royalty
C	11/25.11	P7267L	Virginia Ruth Fell Sole
D	11/25.10	P7267J	Marvin and Sandra K. Lamm
D	11/25.10	P7267J	Emma Julia Fell Mixer
D	11/25.10	P7267J	Virginia Ruth Fell Sole
E	11/25.9	P7267I	Roger and Kimberly. Holmes
E	11/25.9	P7267I	Emma Julia Fell Mixer
E	11/25.9	P7267I	Virginia Ruth Fell Sole
F	11/25.2	P7267B	Marvin and Sandra K. Lamm
F	11/25.2	P7267B	Emma Julia Fell Mixer
F	11/25.2	P7267B	Roger and Kimberly. Holmes
F	11/25.2	P7267B	Kenneth G. Holmes
F	11/25.2	P7267B	Ronald and Vickie Holmes
G	11/3.2	P7267Q	Emma Julia Fell Mixer
G	11/3.2	P7267Q	Edward Holmes
G	11/3.2	P7267Q	Melissa Holmes
H	11/3	P7267O	Kenneth G. Holmes
H	11/3	P7267O	Roger and Kimberly. Holmes
H	11/3	P7267O	Ronald and Vickie Holmes
H	11/3	P7267O	Marvin and Sandra K. Lamm
H	11/3	P7267O	Emma Julia Fell Mixer
I	11/5	P7195	Roger and Kimberly Holmes
J	11/3.1	P7267P	Roger and Kimberly Holmes
K	11/4	P7267R	Roger and Kimberly Holmes
L	Middle Island Creek	MIC 5	West Virginia Division of Natural Resources
M	11/1	P7041	Linda Shimer
M	11/1	P7041	John Grim
N	6/103	P7059	Ridgetop Capital IV LP
N	6/103	P7059	BB Land LLC
O	6/66	P7039	Ridgetop Capital IV LP
O	6/66	P7039	BB Land LLC
P	6/67	P7201	Robert and Kathleen Butler
P	6/67	P7201A	Robert and Kathleen Butler
Q	6/64	P7122	Erma K. Pethel
Q	6/64	P7122	John Grim
Q	6/64	P7122	Linda L. Shimer
Q	6/64	P7122	Blackrock Enterprises
R	6/65	P7200	Haessly Land and Timber, LLC



David L Jackson

Notes: The information on this page was furnished by Jay Bee Oil & Gas.

	OPERATOR'S	
	WELL #: <u>P5N2U</u>	P5N2U Well Plat
	PERMIT#: <u>047-073-02595</u>	PAGE 3 OF 4
	DISTRICT: <u>UNION</u>	DATE: <u>01/05/2022</u>
	COUNTY: <u>PLEASANTS</u>	
STATE: <u>WV</u>		

05/13/2022

JACKSON SURVEYING
 INC.
 P.O. Box 1460
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-5851


P5N2U
UNIT SIZE
 252.261± AC.

Tracts	Tax Map/Parcel Union District	Lease #	Lessor, Grantor, etc
S	6/37	P7121	Erma K. Pethel
S	6/37	P7121	John Grim
S	6/37	P7121	Linda L. Shimer
S	6/37	P7121	Blackrock Enterprises
T	6/38	P7111	Riverside Resources
U	6/30	P7070	Ridgetop Capital IV LP
U	6/30	P7070	BB Land LLC
V	6/30.1	P7070A	Roger and Patty McCartney
V	6/30.1	P7070A	Viviam Battista
V	6/30.1	P7070A	Anne Bowers
V	6/30.1	P7070A	Alice J. Brown
V	6/30.1	P7070A	Don Buchanan
V	6/30.1	P7070A	Suzanne Cross
V	6/30.1	P7070A	Brenda Davis
V	6/30.1	P7070A	Mathew Eubanks
V	6/30.1	P7070A	Todd Eubanks
V	6/30.1	P7070A	David Hayes
V	6/30.1	P7070A	James Hodnett
V	6/30.1	P7070A	Robert Hodnett
V	6/30.1	P7070A	Michael Howell
V	6/30.1	P7070A	Deanna Klaus
V	6/30.1	P7070A	Janet Latto
V	6/30.1	P7070A	Rebecca Linquist
V	6/30.1	P7070A	John Logan
V	6/30.1	P7070A	Mary Marchetti
V	6/30.1	P7070A	Eddie Martin
V	6/30.1	P7070A	Melissa Moore
V	6/30.1	P7070A	Jeanie Neil
V	6/30.1	P7070A	Kevin Pethel
V	6/30.1	P7070A	Robert A. Pethel
V	6/30.1	P7070A	Carissa L. Phillips
V	6/30.1	P7070A	Cindi Rice
V	6/30.1	P7070A	Everette Riley
V	6/30.1	P7070A	Lawrence Riley
V	6/30.1	P7070A	Richard Sheetz
V	6/30.1	P7070A	Robert Weldon
V	6/30.1	P7070A	Mona Wilson
V	6/30.1	P7070A	Special Commissioner Jeffery Dye- 18-P-13
W	6/31	P7070B	Roger and Patty McCartney
X	6/100	P7113	Linda L. Shimer
X	6/100	P7113	John Grim
X	6/100	P7113	Erma Pethel
X	6/100	P7113	Blackrock Enterprises



David L Jackson

Notes: The information on this page was furnished by Jay Bee Oil & Gas.

 <p>Jay Bee Oil & Gas DRILLING into the future</p>	OPERATOR'S WELL #:	<u>P5N2U</u>	<u>P5N2U Well Plat</u>
	PERMIT#:	<u>047-073-02595</u>	<u>PAGE 4 OF 4</u>
	DISTRICT:	<u>UNION</u>	<u>DATE: 01/05/2022</u>
	COUNTY:	<u>PLEASANTS</u>	
	STATE:	<u>WV</u>	

05/13/2022