

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 47-073-02593 County Pleasants District Union
Quad Ben's Run 7.5' Pad Name P5 Field/Pool Name Arvilla
Farm name BB Land LLC Well Number P5N4U

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 337358.33 Easting 1523469.94
Landing Point of Curve Northing 338508.46 Easting 1520875.10
Bottom Hole Northing 346064.51 Easting 1516817.48

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 7/16/2019 Date drilling ceased 8/16/2019
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 141' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1722' 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:
DCW
5/13/22
05/13/2022

API 47-073 - 02593 Farm name BB Land LLC Well number P5N4U

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"	331'	New	J-55 87.5#	86'	Y
Coal							
Intermediate 1	17.5"	13 3/8"	2149'	New	J-55 61#	2143' 319'	Y
Intermediate 2	12 1/4"	9 5/8"	9424'	New	HCP 110 47#	9201' 5960' 2166'	Y
Intermediate 3							
Production	8.5"	5.5"	19421'	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	569	15.6	1.966	680	CTS	8 hrs
Coal							
Intermediate 1	Class A	1512	15.6	1.1859	1793	CTS	8 hrs
Intermediate 2	Class A	Lead 1236 Tail 400	Lead 12.5 Tail 15	L 2.3085 T1.3259	3383	CTS	8 hrs
Intermediate 3							
Production	Class H	3377	15.6	1.1821	3992	3500'	8 hrs
Tubing							

Drillers TD (ft) 19503' Loggers TD (ft) 19421'
 Deepest formation penetrated Point Pleasant/Utica Plug back to (ft) 9829'
 Plug back procedure Set Bakers Hughes Whip Stock in pilot hole just outside of 9 5/8" casing

Kick off depth (ft) 9829'

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 - 02593

Farm name BB Land LLC

Well number P5N4U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11-16-20	19318	19265	84	Point Pleasant
2	11-17-20	19202	19038	84	Point Pleasant
3	11-17-20	19000	18831	84	Point Pleasant
4	11-18-20	18781	18644	84	Point Pleasant
5	11-18-20	18604	18465	84	Point Pleasant
6	11-18-20	18407	18267	84	Point Pleasant
7	11-19-20	18208	18109	84	Point Pleasant
8	11-19-20	18040	17919	84	Point Pleasant
9	11-19-20	17884	17674	84	Point Pleasant
10	11-20-20	17634	17495	84	Point Pleasant
11	11-20-20	17440	17297	84	Point Pleasant
12	11-20-20	17260	17116	84	Point Pleasant
13	11-21-20	17056	16906	84	Point Pleasant
14	11-21-20	16870	16725	84	Point Pleasant
15	11-21-20	16661	16516	84	Point Pleasant
16	11-21-20	16468	16344	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	11-16-20	72.4	9411	10245	6522	470530	10823	N/A
2	11-17-20	71.3	9652	10318	6314	470380	9843	N/A
3	11-17-20	75.2	9873	10570	6496	470870	9837	N/A
4	11-18-20	73.2	9753	10399	6433	470410	9248	N/A
5	11-18-20	75.6	10070	10942	6581	470260	9964	N/A
6	11-18-20	75.3	10091	10899	6825	470760	9252	N/A
7	11-19-20	73.2	9721	10756	6499	470780	8880	N/A
8	11-19-20	73.4	9732	10699	6712	472790	9436	N/A
9	11-19-20	75.1	9719	10583	6509	470910	9202	N/A
10	11-20-20	75.1	9644	10489	6486	470050	8986	N/A
11	11-20-20	75.3	9792	10618	6885	470400	9300	N/A
12	11-20-20	75.8	9833	10754	6895	470060	8770	N/A
13	11-21-20	76.3	10187	10963	6563	471380	9261	N/A
14	11-21-20	75	9955	10729	6822	470545	9199	N/A
15	11-21-20	72.3	10400	11022	6718	470810	9048	N/A
16	11-21-20	76.1	9542	10301	6565	470830	8701	N/A

Please insert additional pages as applicable.

API 47- 073 - 02593

Farm name BB Land LLC

Well number P5N4U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	11-22-20	16291	16170	84	Point Pleasant
18	11-22-20	16118	15950	84	Point Pleasant
19	11-23-20	15850	15722	84	Point Pleasant
20	11-24-20	15678	15570	84	Point Pleasant
21	11-24-20	15522	15357	84	Point Pleasant
22	11-24-20	15320	15158	84	Point Pleasant
23	11-25-20	15122	14964	84	Point Pleasant
24	11-25-20	14908	14785	84	Point Pleasant
25	11-25-20	14724	14570	84	Point Pleasant
26	11-26-20	14570	14425	84	Point Pleasant
27	11-27-20	14382	14208	84	Point Pleasant
28	11-27-20	14151	14008	84	Point Pleasant
29	11-27-20	13974	13826	84	Point Pleasant
30	11-28-20	13791	13634	84	Point Pleasant
31	11-28-20	13600	13464	84	Point Pleasant
32	11-28-20	13410	13238	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	77	9902	10612	6896	470520	8750	N/A
18	11-22-20	75.4	10070	10741	6925	471060	8834	N/A
19	11-23-20	75.3	10093	10699	8399	461420	8534	N/A
20	11-24-20	74.9	9445	10401	6684	470770	8688	N/A
21	11-24-20	73.7	9647	10399	6587	470590	8986	N/A
22	11-24-20	75.3	9697	10301	6712	470890	8886	N/A
23	11-25-20	76	9632	10298	6801	471270	8702	N/A
24	11-25-20	74.9	9825	10412	6648	470620	9049	N/A
25	11-25-20	75.1	9461	10099	6742	470760	9075	N/A
26	11-26-20	75.5	9564	10113	6927	471030	8390	N/A
27	11-26-20	75.2	9403	10201	6902	470460	9068	N/A
28	11-26-20	72.9	9951	10487	6543	470630	10267	N/A
29	11-27-20	75.4	8975	10197	6758	470260	8333	N/A
30	11-28-20	75.4	8895	10087	6812	469990	8348	N/A
31	11-28-20	75.8	8784	9903	6758	470360	8938	N/A
32	11-28-20	75.9	8790	9896	6802	470380	8982	N/A

Please insert additional pages as applicable.

API 47- 073 - 02593

Farm name BB Land LLC

Well number P5N4U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	11-29-20	13410	13238	84	Point Pleasant
34	12-3-20	13030	12851	84	Point Pleasant
35	12-4-20	12796	12638	84	Point Pleasant
36	12-4-20	12584	12430	84	Point Pleasant
37	12-4-20	12386	12247	84	Point Pleasant
38	12-4-20	12214	12076	84	Point Pleasant
39	12-5-20	12040	11892	84	Point Pleasant
40	12-5-20	11842	11682	84	Point Pleasant
41	12-5-20	11614	11476	84	Point Pleasant
42	12-5-20	11372	11258	84	Point Pleasant
43	12-6-20	11240	10974	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	75.2	8711	9872	6625	429880	7776	N/A
34	12-3-20	75.4	8882	9912	6717	470020	8335	N/A
35	12-4-20	75.6	9078	9863	6803	450940	8252	N/A
36	12-4-20	75.8	9094	9799	6842	470800	8971	N/A
37	12-4-20	76	9214	9852	7025	470940	9015	N/A
38	12-4-20	75.9	9179	9891	7102	470230	8493	N/A
39	12-5-20	74.9	9304	9785	7369	470650	8497	N/A
40	12-5-20	75.9	9401	9802	7185	470770	8915	N/A
41	12-5-20	76.4	9427	9758	7228	470720	8941	N/A
42	12-5-20	75.1	9429	9739	7358	420510	8320	N/A
43	12-6-20	76.1	9553	9902	7189	470560	8937	N/A

Please insert additional pages as applicable.

API 47- 073 - 02593 Farm name BB Land LLC Well number P5N4U

PRODUCING FORMATION(S)	DEPTHS		
Point Pleasant	10097'	TVD	19421' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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)
See Attached	0		0		surveys & lithology

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI
Address 207 Carlton Drive City Eighty Four State PA Zip 15330
Logging Company Stratagraph NE Inc.
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750
Cementing Company BJ Services
Address 3415 Millennium Boulevard City Massillon State OH Zip 44646
Stimulating Company ProFrac
Address 333 Shops Boulevard, Suite 301 City Willow Park State TX Zip 76087

Please insert additional pages as applicable.

Completed by Lisa Cattafesta Telephone 304-628-3111
Signature Lisa Cattafesta Title Landman Date 1-18-2022

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: 47-073-02593 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 : 47-073-02593

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 : 47-073-02593

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/Bl
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 02593 _____ ;
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:	47-073-02593-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	P5 N4U
Latitude:	39.41552730
Longitude:	-81.07529000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,690
Total Base Water Volume (gal):	16,182,978
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

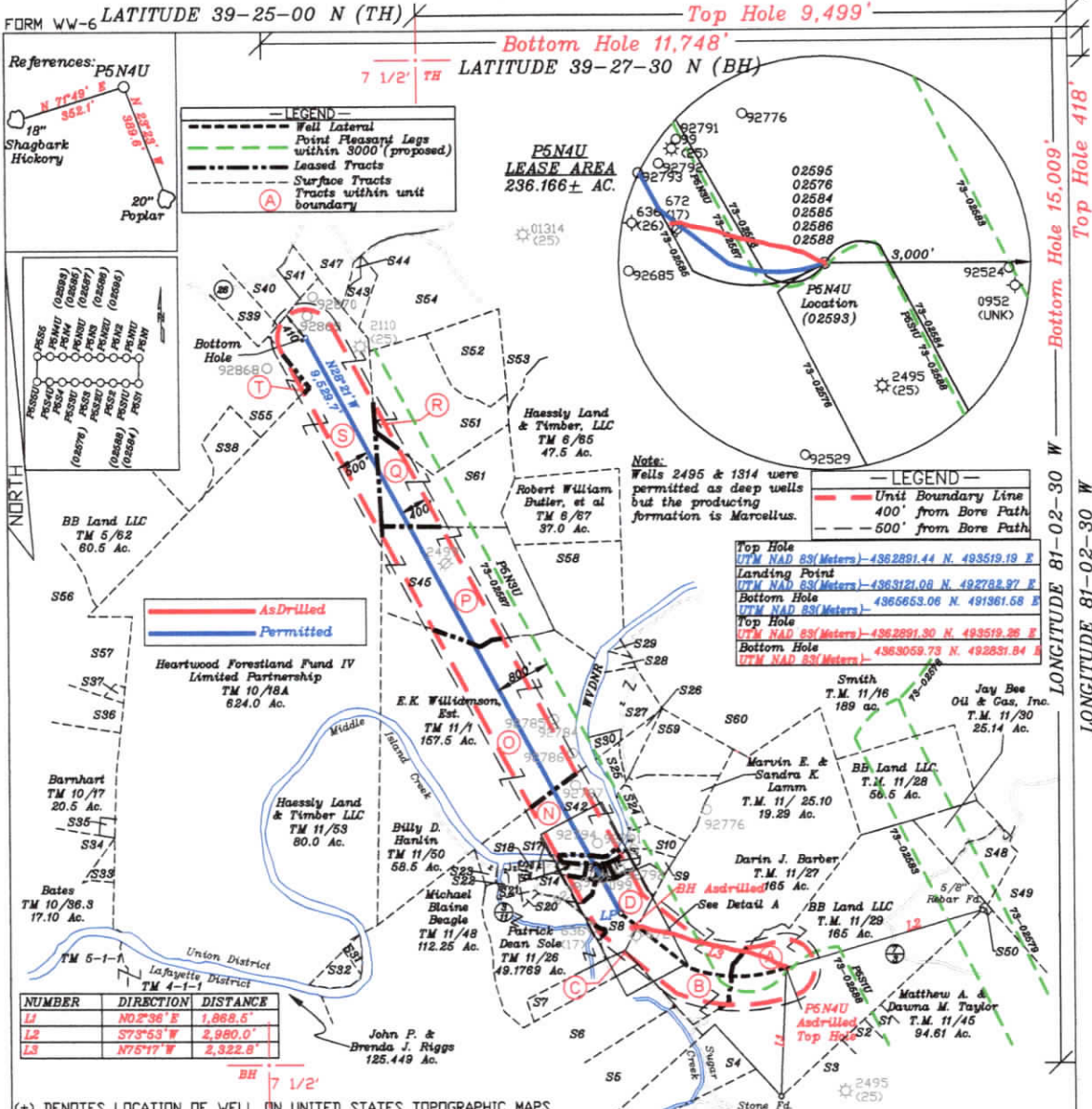
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Jay-Bee Oil and Gas	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.51130	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	5.51571	None
Sand(30/50 Mesh) Proppant	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	4.90028	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	2.20776	None
Hydrochloric Acid (15%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.41231	None
Sand(30/50 Carbolite)	Jay-Bee Oil and Gas	Proppant	Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.17947	None
			Mullite	1302-93-8	85.00000	0.22340	None
			Silicon Dioxide, (amorphous as glass)	7631-86-9	35.00000	0.09199	None
			Silica Crystalline-Cristobalite	14464-46-1	20.00000	0.05257	None

ProSlick 100	EES	Friction Reducer	Hydrotreated Light Petroleum Disitillate	64742-47-8	30.00000	0.02363	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00394	None
ProCheck 100	EES	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.01620	None
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00180	None
Bioclear 1430	EES	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00356	None
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride Dimethylamine	68424-85-1	5.00000	0.00089	None
ProVis 4.0	EES	Gel	Petroleum Disitillate	64742-47-8	55.00000	0.00084	None
			Guar Gum	9000-30-0	55.00000	0.00084	None
			Suspending agent	1302-78-9	5.00000	0.00008	None
ProHib 100	ProFrac	Acid Inhibitor	2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00015	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	0.41231	
			Mullite	1302-93-8	85.00000	0.22340	
			Silica Crystallince-Cristobalite	14464-46-1	20.00000	0.05257	
			Non-hazardous substances	Proprietary	90.00000	0.01620	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00394	
			Glutaraldehyde	111-30-8	20.00000	0.00356	
			Guar Gum	9000-30-0	55.00000	0.00084	
			Dimethylamine	68439-70-3	0.50000	0.00009	
			Suspending agent	1302-78-9	5.00000	0.00008	

* 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)



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 January 07, 2022
 OPERATOR'S WELL NO. P5N4U
 API WELL NO. _____

WELL TYPE: OIL X GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
 LOCATION: ELEVATION 869.1' 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

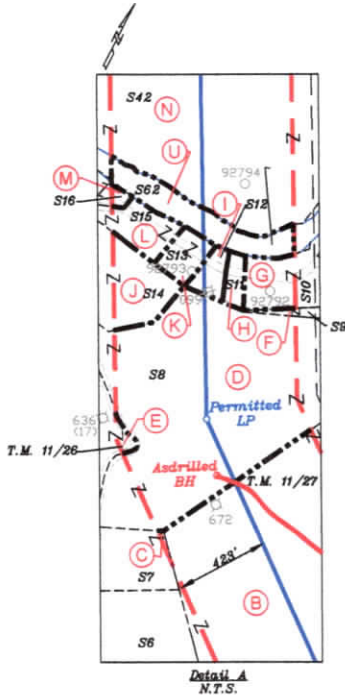
PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ASDRILLED

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD = 10,343'; TMD = 10,701'
 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

**P5N4U
LEASE AREA
236.166± AC.**



P.S. 708
David L Jackson

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. ESTATE	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 C. & 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	MATTHEW S. & STEFANIE A. HOLMES	11 / 25.6	0.581
S12	JON. R. & SHARON Y. BAILEY	11 / 25.13	0.624
S13	DEANE SCHULTHEIS	11 / 25.5	0.75
S14	KENNETH C. & DORIS A. HOLMES	11 / 25.3	5.621
S15	BENNY D. & C. DARLENE WHARTON	11 / 25.4	2.25
		11 / 25.8	TOTAL
S16	THETA D. & NEAL RODNEY MYERS	11 / 24	0.21
S17	JAMES KEVIN STOUT, ET AL	11 / 23.1	0.524
S18	JAMES KEVIN STOUT, ET AL	11 / 23.2	0.084
S19	STEPHEN A. & LINDA K. POYNTER	11 / 23	0.93
S20	SUGAR VALLEY SCHOOL	11 / 25.1	0.57
S21	GRANT HOSKINSON	11 / 22	3.63
S22	DEPARTMENT OF NATURAL RESOURCES	11 / 22.1	1.37
S23	MICHAEL BLANIE BEAGLE	11 / 21	1.0
S24	EMMA JULIA FELL MIXER	11 / 25	5.033
S25	GARY BURIAN	11 / 2	6.1
S26	EMMA JULIA FELL MIXER	11 / 25.2	4.687
S27	KENNETH C. HOLMES, ET AL	11 / 3	18.45
S28	ROGER Q. & KIMBERLY A. HOLMES, ET AL	11 / 3.1	1.75
S29	ROGER Q. & KIMBERLY A. HOLMES, ET AL	11 / 4	1.0
S30	EDWARD B. & MELISSA K. HOLMES	11 / 3.2	3.447
S31	JOHN TICE	11 / 51.1	1.0
S32	JIMMY M. THAXTON II	11 / 51	5.564
S33	JOHN P. & BRENDA J. RIGGS	10 / 49	4.0
S34	JESSE M. & JUDITH K. BARNHART	10 / 24	25
S35	JESSE M. & JUDITH K. BARNHART	10 / 26	1.0
S36	LARRY O. & BRENDA L. BARNHART	10 / 25	10.0
S37	LARRY O. & BRENDA L. BARNHART, ET AL	5 / 7.1	1.0
S38	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	5 / 56.1	12.5
S39	CARROLL L. ASH	5 / 36	15.0
S40	MICHAEL W. METZ	5 / 37	20.0
S41	NATHAN WADE BENNETT	6 / 109	5.011
S42	KENNETH HOLMES ET AL	11 / 25.7	40.88
S43	DAVID ROGER & PATTY SUE MCCARTNEY	6 / 30.1	6.0
S44	DAVID ROGER & PATTY SUE MCCARTNEY	6 / 31	0.75
S45	BB LAND, LLC	6 / 66	85.0
S47	HEARTLAND FORESTLAND FUND IV LIMITED PARTNERSHIP	6 / 100	84
S48	JAY BEE OIL & GAS, INC.	11 / 31	13.11
S49	LARRY WILLIAM HORNER, ET AL	11 / 32	231.82
S50	GARDNER CEMETERY	11 / 45.1	0.39
S51	LOUIE A. STANLEY	6 / 37	60.0
S52	CHARLES R. & BETH ANN MANKINS	6 / 38	23.5
S53	CHARLES R. & BETH ANN MANKINS	6 / 39	25.5
S54	CHARLES R. & BETH ANN MANKINS	6 / 30	45.0
S55	MARK J. & MICHELLE LYNN WEAVER	5 / 56	117.412
S56	JOSEPH & CYNTHIA AYERS	5 / 61	35.981
S57	RICHARD C. & DIANE BEANE	10 / 7	20.0
S58	ROBERT WILLIAM BUTLER, ET AL	6 / 103	38.93
S59	ROGER Q. & KIMBERLY A. HOLMES	11 / 25.9	20.53
S60	ROGER Q. & KIMBERLY A. HOLMES	11 / 5	111.0
S61	HEARTLAND FORESTLAND FUND IV LIMITED PARTNERSHIP	6 / 64	45.75
S62	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	MIDDLE ISLAND CREEK	2.33 calc.

- 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 625' from the center of the proposed pad. No perennial streams are located within 100' of LOD. No producing trout stream is located within 300' of 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 #:	P5N4U	P5N4U Well Plat
	WELL #:	47-073-02593	PAGE 2 OF 3
	DISTRICT:	UNION	DATE: 01/07/2022
	COUNTY:	PLEASANTS	
	STATE:	WV	

05/13/2022

JACKSON SURVEYING
INC.

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

P5N4U
LEASE AREA
236.166 ± 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	11/33	P7266	Edward Williamson
C	11/33	P7266	Jeffery Williamson
D	11/25.12	P7267L	Virginia Ruth Fell Sole
D	11/25.12	P7267L	Emma Julia Fell Mixer
D	11/25.12	P7267L	Kenneth G. & Doris A. Holmes
E	11/26	P7267N	Virginia Ruth Fell Sole
E	11/26	P7267N	Emma Julia Fell Mixer
E	11/26	P7267N	Ronald and Vickie Holmes
E	11/26	P7267N	Roger and Kimberly Holmes
E	11/26	P7267N	Marvin and Sandra K. Lamm
E	11/26	P7267N	Kenneth G. Holmes
F	11/25.14	P7267	Gary Burian
G	11/25.11	P7267K	Ronald and Vickie Holmes
G	11/25.11	P7267K	Virginia Ruth Fell Sole
G	11/25.11	P7267K	Emma Julia Fell Mixer
H	11/25.6	P7267F	Virginia Ruth Fell Sole
H	11/25.6	P7267F	Kenneth G. Holmes
H	11/25.6	P7267F	Roger and Kimberly Holmes
H	11/25.6	P7267F	Ronald and Vickie Holmes
H	11/25.6	P7267F	Marvin and Sandra K. Lamm
H	11/25.6	P7267F	Emma Julia Fell Mixer
I	11/25.13	P7267M	Virginia Ruth Fell Sole
I	11/25.13	P7267M	Emma Julia Fell Mixer
I	11/25.13	P7267M	Jon R. & Sharon Y. Bailey
J	11/25.3	P7267C	Kenneth G. & Doris A. Holmes
J	11/25.3	P7267C	Virginia Ruth Fell Sole
J	11/25.3	P7267C	Emma Julia Fell Mixer
K	11/25.5	P7267E	Roger and Kimberly Holmes
K	11/25.5	P7267E	Ronald and Vickie Holmes
K	11/25.5	P7267E	Marvin and Sandra K. Lamm
K	11/25.5	P7267E	Emma Julia Fell Mixer
K	11/25.5	P7267E	Deanne Schultheis
K	11/25.5	P7267E	Marvin and Sandra K. Lamm
L	11/25.4	P7267D	Kenneth G. & Doris A. Holmes
L	11/25.4	P7267D	Roger and Kimberly Holmes
L	11/25.4	P7267D	Ronald and Vickie Holmes
L	11/25.4	P7267D	Marvin and Sandra K. Lamm
L	11/25.4	P7267D	Emma Julia Fell Mixer
L	11/25.4	P7267D	Virginia Ruth Fell Sole
L	11/25.4	P7267D	Benny D. & Darlene Wharton
L	11/25.4	P7267D	Virginia Ruth Fell Sole
L	11/ 25.8	P7267H	Roger and Kimberly Holmes
L	11/ 25.8	P7267H	Ronald and Vickie Holmes
L	11/ 25.8	P7267H	Marvin and Sandra K. Lamm
L	11/ 25.8	P7267H	Emma Julia Fell Mixer
L	11/ 25.8	P7267H	Virginia Ruth Fell Sole
L	11/ 25.8	P7267H	Benny D. & Darlene Wharton
L	11/ 25.8	P7267H	Virginia Ruth Fell Sole
M	11/24	P7267W	Marsa Myers
M	11/24	P7267W	Joshua Myers
M	11/24	P7267W	Luke Alan Myers
M	11/24	P7267W	Melinda Myers
N	11/25.7	P7267G	Virginia Ruth Fell Sole
N	11/25.7	P7267G	Roger and Kimberly Holmes
N	11/25.7	P7267G	Ronald and Vickie Holmes
N	11/25.7	P7267G	Marvin and Sandra K. Lamm
N	11/25.7	P7267G	Emma Julia Fell Mixer
N	11/25.7	P7267G	Kenneth G. & Doris A. Holmes
O	11/1	P7041	Williamson E.K. Est c/o John Grim-Richard Shimer
O	11/1	P7041	Linda Shimer
O	11/1	P7041	John Grim
P	6/66	P7039	Ridgetop Capital IV LP
P	6/66	P7039	BB Land LLC
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
Q	6/64	P7122	Williamson E.K. Est c/o John Grim-Richard Shimer
R	6/37	P7121	Erma K. Pethel
R	6/37	P7121	John Grim
R	6/37	P7121	John S. Grim
R	6/37	P7121	Linda L. Shimer
S	10/18A	P7098	John Grim
S	10/18A	P7098	Erma Pethel
T	5/56	P7123A & B	James and Lenora Renner
U	Middle Island Creek		West Virginia Division of Natural Resources

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



David L Jackson
P.S. 708

Jay Bee Oil & Gas
DRILLING
into the future

OPERATOR'S WELL #:	P5N4U	P5N4U Well Plat PAGE 3 OF 3 DATE: 01/07/2022
WELL #:	47-073-02593	
DISTRICT:	UNION	
COUNTY:	PLEASANTS	
STATE:	WV	

05/13/2022