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 2 4 2022

				JAN 2 4 2022
API <u>47</u> - 073 _ 02588	County Pleasa	ants	District Union	WV Department of
Quad Ben's Run 7.5'	Pad Name P5		Field/Pool Name	Arvilla Arvilla
Farm name BB Land LLC			Well Number P	5S1U
Operator (as registered with the OO	G) Jay-Bee Oil & C	Sas, Inc.		
Address 16 South Avenue W	Suite 118 City Cr	anford	State New .	Jersey Zip 07016
As Drilled location NAD 83/UTN Top hole Landing Point of Curve Bottom Hole Elevation (ft) 868.1' GL Permit Type Deviated Type of Operation Convert Well Type Brine Disposal Cl Type of Completion Single Rotary	Attach an as-drill Northing 337337.52 Northing 337278.268 Northing 330453.576 Type of Well Horizontal Horizo Deepen Drill BM Gas Oil Se Multiple Fluids Prod	ed plat, profile view, and East East New Existing Intal 6A Vertical Plug Back Redrict Econdary Recovery Secured Brine Gas	d deviation survey ting 1523529.242 ing 1524421.653 ting 1527901.872 Type of Repo Depth Type Blling Rework colution Mining NGL Oil	ort □Interim ■Final ■ Deep □ Shallow Stimulate Storage □ Other □ Other
Drilling Media Surface hole			hole ■ Air □ M	[ud □ Fresh Water □ Brine
Production hole	□ Fresh Water □ Brir	ne		
Mud Type(s) and Additive(s) Synthetic Based Mud (SOBM), K-49	(Base Oil), Barite, Anco	Mul P. Anco Mul S. Anc	o Mul OW. Anco M	lul XL. Anco Mul Mod
Anco Mul OW, Claytone 3,	- 10			
Date permit issued 3/20/2019 Date completion activities began Verbal plugging (Y/N)N	Date drilling com	E/0/2040	Date drillin	0/40/0040
Please note: Operator is required to		cation within 5 days of v	verbal permission to	
Freshwater depth(s) ft	138'	Open mine(s) (Y/N) o	lepths	
Salt water depth(s) ft	1729'	Void(s) encountered (Y/N) depths	
Coal depth(s) ft	N/A	Cavern(s) encountered	d (Y/N) depths	N
Is coal being mined in area (Y/N) _	N			Reviewed by:

Rev. 8/23/13

API 47-073 - 073-02588 Farm name BB Land LLC

Comment Details

_____Well number_S1U

CASING	Hole	Casing		New or	Grade	Basket	Did cement circulate (Y/N)
STRINGS	Size	Size	Depth	Used	wt/ft	Depth(s)	* Provide details below*
Conductor	30"	26"	30'	New	N/A	N/A	Grouted from Surface
Surface	22"	18 5/8"	335'	New	J-55 87.5#	41' & 295'	Y
Coal							
Intermediate 1	17.5"	13 3/8"	2123'	New	J-55 61#	2122' & 287'	Υ
Intermediate 2	12 1/4"	9 5/8"	9270'	New	HCP 110 47#	9049' 5825' 2207'	Y
Intermediate 3						·	
Production	8.5"	5.5"	18692'	New	P110 23#	N/A	Y
Tubing							
Packer type and de	epth set	!	<u> </u>	<u> </u>	l .	<u> </u>	<u> </u>

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ¹)	Cement Top (MD)	WOC (hrs)
Conductor	Class A						
Surface	Class A	544	15.6	1.1966	650	CTS	8 hrs
Coal							
Intermediate 1	Class A	1465	15.6	1.1859	1737	CTS	8 hrs
Intermediate 2	Class A	Lead 1194 Tail 400	Lead 12.5 Tail 15	L 2.3085 T1.3259	3329	CTS	8 hrs
Intermediate 3						· · · · · · ·	
Production	Class H	3284	15.6	1.1821	3857	3500'	8 hrs
Tubing							

Drillers TD (ft) 18714'			Loggers TD (ft) 18714' Plug back to (ft) 9124'						
Deepest formation penetrated Point	nt Pleasat/Utica								
Plug back procedure Set Bakers Hughes Whip Stock in pilot hole just outside of 9 5/6" casing and kick off									
Kick off depth (ft) 9829									
Check all wireline logs run	a caliper	■ density	deviated/directional	■ induction					
	neutron	■ resistivity	🖥 gamma ray	■ temperature □sonic					
Well cored □ Yes ■ No	Convention			attings collected Yes No					
DESCRIBE THE CENTRALIZE 90-70 degrees steel body centralizer every secon		NT USED FOR	EACH CASING STRING	G Steel body centralizer placed every 90' in lateral					
70 degrees to KOP steel body centralizer every 3	rd joint								
KOP to Surface Bow spring centralizer every 500									
WAS WELL COMPLETED AS	SHOT HOLE	□ Yes ■ N	No DETAILS						
WAS WELL COMPLETED OP	EN HOLE?	□ Yes ■ No	DETAILS						
WERE TRACERS USED	es 🖪 No	TYPE OF TR	ACER(S) USED						

API 47- 073 _ 02588

Farm name_BB Land LLC

_Well number_P5S1U

PERFORATION RECORD

Stage		Perforated from	Perforated to	Number of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
1	12-7-20	18555	18484	84	Point Pleasant
2	12-7-20	18454	18332	84	Point Pleasant
3	12-7-20	18304	18169	84	Point Pleasant
4	12-8-20	18102	17978	84	Point Pleasant
5	12-8-20	17937	17843	84	Point Pleasant
6	12-8-20	17804	17686	84	Point Pleasant
7	12-8-20	17651	17554	84	Point Pleasant
8	12-9-20	17515	17422	84	Point Pleasant
9	12-9-20	17384	17303	84	Point Pleasant
10	2-4-21	17254	17170	84	Point Pleasant
11	2-4-21	17132	17048	84	Point Pleasant
12	2-5-21	17002	16910	84	Point Pleasant
13	2-5-21	16858	16786	84	Point Pleasant
14	2-5-21	16749	16550	84	Point Pleasant
15	2-6-21	16612	16506	84	Point Pleasant
16	2-6-21	16463	16376	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	12-7-20	63.2	10419	11320	6810	470380	14077	N/A
2	12-7-20	70.2	10495	11296	7008	470690	10332	N/A
3	12-7-20	71.4	10571	11398	6822	425620	9973	N/A
4	12-8-20	69.7	10504	11293	7326	470700	10549	N/A
5	12-8-20	72.7	10771	11333	7263	373700	9505	N/A
6	12-8-20	67.7	11420	11623	7244	320300	11420	N/A
7	12-8-20	70.5	10137	11212	7359	470550	11459	N/A
8	12-9-20	69.3	10359	11556	7412	468110	10337	N/A
9	12-9-20	67.6	11060	11412	10968	376350	9087	N/A
10	2-4-21	40.6	11389	11863	7751	23360	6668	N/A
11	2-4-21	66.7	10755	11722	7618	376610	10317	N/A
12	2-5-21	72.2	9842	10895	7312	474590	9711	N/A
13	2-5-21	70	9797	10912	7273	473720	10105	N/A
14	2-5-21	69.8	9548	10844	7438	470450	10043	N/A
15	2-6-21	73.8	9449	10743	7299	471275	9647	N/A
16	2-6-21	70.3	9464	10812	7463	435670	10004	N/A

Please insert additional pages as applicable.

API 47- 073 _ 02588 Farm name BB Land LLC Well number P5S1U

PERFORATION RECORD

Stage		Perforated from	Perforated to	Number of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
17	2-6-21	16339	16244	84	Point Pleasant
_18	2-6-21	16149	16104	84	Point Pleasant
19	2-7-21	16070	15989	84	Point Pleasant
20	2-7-21	15952	15866	84	Point Pleasant
21	2-7-21	15820	15715	84	Point Pleasant
22	2-7-21	15672	15570	84	Point Pleasant
23	2-8-21	15515	15436	84	Point Pleasant
24	2-8-21	15402	15288	84	Point Pleasant
25	2-8-21	15243	15116	84	Point Pleasant
26	2-8-21	15082	14948	84	Point Pleasant
27	2-9-21	14918	14789	84	Point Pleasant
28	2-9-21	14756	14673	84	Point Pleasant
29	2 -9 -21	14622	14518	84	Point Pleasant
30	2-10-21	14480	14392	84	Point Pleasant
31	2-10-21	14350	14205	84	Point Pleasant
32	2-10-21	14147	14026	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	2-6-21	71.2	9100	10698	7243	334960	8127	N/A
18	2-6-21	71.8	9171	10711	7342	467700	9685	N/A
19	2-7-21	72.4	9286	10568	7412	472880	9699	N/A
20	2-7-21	70.3	9161	10499	7288	470510	10204	N/A
21	2-7-21	70.8	9187	10476	7196	470630	9843	N/A
22	2-7-21	71.4	9188	10567	7302	462430	9770	N/A
23	2-8-21	71.3	9097	10551	7211	469560	9787	N/A
24	2-8-21	71.4	9232	10796	7265	457740	10229	N/A
_25	2-8-21	70.9	9198	10638	7242	465850	9922	N/A
26	2-8-21	71.4	9330	10811	7318	473860	9718	N/A
27	2-9-21	71.6	9382	11003	7321	471370	9528	N/A
_28	2-9-21	70.4	9393	11019	7333	469720	9528	N/A
29	2-9-21	69.9	9593	11291	7434	476930	10338	N/A
_30	2-10-21	70.6	9627	11082	7723	476890	9388	N/A
31	2-10-21	70.2	9522	10996	7329	474880	9548	N/A
32	2-10-21	70.6	9494	10873	7218	471150	9782	N/A

Please insert additional pages as applicable.

API 47- 073 _ 02588

Farm name_BB Land LLC

_____Well number_P5S1U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	2-10-21	13949	13780	84	Point Pleasant
34	2-12-21	13720	13540	84	Point Pleasant
35	2-12-21	13470	13353	84	Point Pleasant
36	2-12-21	13234	13132	84	Point Pleasant
37	2-12-21	13096	12942	84	Point Pleasant
38	2-12-21	12880	12696	84	Point Pleasant
39	2-12-21	12654	12411	84	Point Pleasant
40	2-13-21	12323	12170	84	Point Pleasant
41	2-13-21	12124	11953	84	Point Pleasant
42	2-13-21	11896	11662	84	Point Pleasant
43	2-14-21	11625	11387	84	Point Pleasant
44	2-14-21	11346	11078	84	Point Pleasant
45	2-14-21	11020	10852	84	Point Pleasant
L			<u> </u>		

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	2-10-21	70	9348	10798	7256	474000	9941	N/A
34	2-12-21	70.1	9477	10652	7159	472000	9710	N/A
35	2-12-21	70	9399	10548	7245	467000	9508	N/A
36	2-12-21	70.2	9555	10611	7163	458300	9433	N/A
37	2-12-21	68.7	9734	10589	7256	383200	8751	N/A
38	2-12-21	70.9	9491	10422	7309	471500	9807	N/A
39	2-12-21	71	9259	10403	7101	475220	9557	N/A
40	2-13-21	70.7	9271	10284	7173	479000	9312	N/A
41	2-13-21	69.3	9319	10316	7268	470300	10847	N/A
42	2-13-21	70	9409	10856	7327	472190	9720	N/A
43	2-14-21	70.3	9417	10466	7333	463000	9783	N/A
44	2-14-21	69.6	9473	10312	7291	426000	12268	N/A
45	2-14-21	70.6	9245	10662	7222	453600	9476	N/A
	<u></u>							

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13

API 47- 073	073-02588	Farm	_{name} BB Lan	d LLC		Well n	umber_	S1U		
PRODUCING I Point Pleasan	FORMATION(S	100 A	<u>DEPTHS</u> 10243'	_TVD <u>1</u>	8714'	MD				
Please insert ad	ditional pages a	s applicable.								
GAS TEST	□ Build up □	Drawdown	□ Open Flow	0	OIL TEST	Flow [Pump			
SHUT-IN PRES	SSURE Surf	ace	_psi Botto	m Hole	psi	DURAT	TION O	F TES	Thr	s
OPEN FLOW	Gas mcf		NGL bpd		Water bpd					
LITHOLOGY/ FORMATION	NAME TVD		TOP DEPTH IN FT MD						D QUANTITYANI NE, OIL, GAS, H ₂ S	
See Attached	0 surveys & lithology		0							
					-					
Please insert ad	ditional pages a	s applicable.								
	ctor Patterson	UTI								
Address 207 Ca	arlton Drive		City	Eighty Four	r	State	PA	Zip	15330	
Logging Compa Address 116 El	any Stratagrap Isworth Avenue	h NE Inc.	City	Marietta		State	ОН	Zip	45750	
	npany BJ Serv Millennium Boule		City	Massillon		State	ОН	Zip	44646	
Address 333 SI	mpany ProFra	Suite 301	City	Willow Park	k	State	TX	Zip	76087	
Please insert ad	lditional pages a	s applicable.								
Completed by	Lisa Cattafesta				Telephone	304-62	8-3111			_
Signature		festa	Title _La	andman			Date 1		2	
Submittal of Hy	draulic Fractur	ing Chemical	Disclosure Info	rmation	Attach copy	of FRACI	FOCUS	Regist	try	

WR-34 Page 1 of 3 Rev. 10-10

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:	47-073-02588	County:	Pleasants				
District:	Union	Wall No.	P5S1U				
Farm Name:	BB Land, LLC		3				
Discharge Date/s I	From:(MMDDYY)	To: (MMI	DDYY)				
Discharge Times.		To:					
Total Volume to b	e Disposed from this facility (gallo	ons): No Discharg	е				
) Utilized (write volumes in gallons						
(1) Land Applica	tion:	(Include a topograph	nical map of the Area.)				
(2) UIC:		Permit No.					
(3) Offsite Dispos	sal:	Site Location:					
(4) Reuse:		Alternate Permit Nu	mber:				
(5) Centralized Fa		Permit No.					
(6) Other method		(Include an explanat	ion)				
	s below to determine your treatmen	nt category:					
	ment test: _n/a Cl- mg/l	n/a DO mg/					
(Y/N) N If not go to li 2. Was Frac Flu line 3. 3. Do you have If not, go to l 4. Is the Chloric 5. Do you have If not, enter a 6. Is the DO lev not, enter a th 7. n/a is the	a chloride value pretreatment (see	and and and and all figures above)? (Y/N) n/a above)? (Y/N) n/a above)	I place a four (4) on line 7. s, go to line 5. If not, go to If yes, go to line 4 then enter a one (1) on line 7.				
Name of Princi	pal Exec. Officer: Lisa Cattafesta						
Title of Officer							
Date Complete							
	der penalty of law that I have pers						
	omitted on this document and all the						
	duals immediately responsible for true, accurate, and complete. I am						
	e information, including the possibi						
sacament land	merading the possion	, or time und impri	- Comment				

Lisa Cattafesta Signature of a Principal Exec. Officer or Authorized agent. WR-34 Page 2 of 3

Category 1

Sampling Results
API No: 47-073-02588

	Predis	charge	Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
pН	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 rep	orted if the pH	is above 9.0			
Category 2					
Sampling Results					
API No:					
		- ,			

	Predis	scharge	Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
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	y, 	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 m	ith increator's	annroval			

^{*} 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

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Category 3

Sampling Results
API No: 47-073-02588

API No: 47-073-02	2588	_			
	Predi	scharge	Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
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 wi	th inspector's	s approval,			
(Inspector's signatu	re):		D	ate:	
** Include a descrip		aeration technic		Aeration Code:	(
*** Al is only report			uc.	retation code.	
Category 4 Sampling Results API No:		_			
	Predi	scharge	Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
pH	6-10		6-10	•	S.U
Settling Time	1		N/A	N/A	Days
Fe	Monitor		Monitor		mg/l

	Predis	charge	Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
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 w	ith inspector's	approval,			

(Inspector's signature): _____ Date: _____ 05/13/2022

WW-72 (Rev. 12/99)

OIL AND GAS RECLAMATION NOTICE

TO:
Name
Address
Name
Address
Nome
Name Address
Addioss
Pursuant to West Virginia Code 22-7, notice is hereby given that the undersigned well operator 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 _ 02588 ;
165.0
Acreage 103.0 ; 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 mad 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	<u>TOP</u>		
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

0	Total Base Non Water Volume:
18,781,686	Total Base Water Volume (gal):
10,690	True Vertical Depth:
NO	Indian Well:
NO	Federal Well:
NAD27	Datum:
-81.07507000	Longitude:
39.41547000	Latitude:
P5 S1U	Well Name and Number:
Jay-Bee Oil & Gas, Inc.	Operator Name:
47-073-02588-00-00	API Number:
Pleasants	County:
West Virginia	State:
2/14/2021	Job End Date:
12/7/2020	Job Start Date:







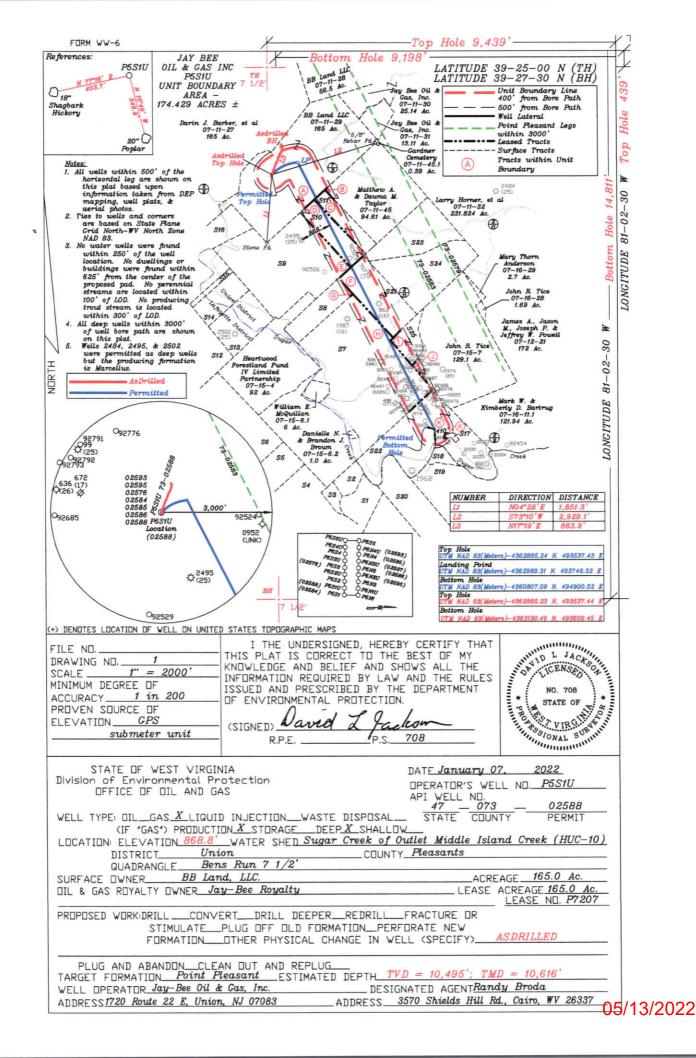
Hydraulic Fracturing Fluid Composition:

None	0.04401None	20.00000	14464-46-1	Silica Crystallince-Cristobalite			
None	0.07702None	35.00000	7631-86-9	Silicon Dioxide, (amorphous as glass)			
None	0.18706None	85.00000	1302-93-8	Mullite			
					Proppant		Sand(30/50 Carbolite) Jay-Bee Oil and Gas
None	0.18368None	37.00000	7647-01-0	Hydrochloric Acid (Hydrogen Chloride)			
None	0.42197None	85.00000	7732-18-5	Water			
					Acidizing	PVS	Hydrochloric Acid (15%)
None	2.00100None	100.00000	14808-60-7	Silica Substrate			
					Proppant	ProFrac	Sand (100 Mesh Proppant)
None	4.01196None	100.00000	14808-60-7	Silica Substrate			
					Proppant	ProFrac	Sand(30/50 Mesh) Proppant
None	4.97459None	100.00000	14808-60-7	Silica Substrate			
					Proppant	ProFrac	Sand (40/70 White Proppant)
None	88.14681None	100.00000	7732-18-5	Water			
					Carrier/Base Fluid	Jay-Bee Oil and Gas	Water
Comments	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Maximum Maximum Ingredient Ingredient Concentration in Concentration in Additive HF Fluid (% by mass)** (% by mass)**	Chemical Abstract Service Number (CAS #)	Ingredients	Purpose	Supplier	Trade Name

ProSlick 100	EES	Friction Reducer					
			Hydrotreated Light Petroleum Disitilate	64742-47-8	30.00000	0.02834None	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00472None	None
ProVis 4.0	EES	Gel					
			Guar Gum	9000-30-0	55.00000	0.00951None	
			Petroleum Disitilate	64742-47-8	55.00000	0.00951None	
			Suspending agent	1302-78-9	5.00000	0.00086None	Vone
ProCheck 100	EES	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000	0.01657None	None
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00184None	Vone
Bioclear 1430	EES	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00357None	None
			Benzyl-(C12-C16 Alkyl)- Dimethyl-Ammonium Chloride	68424-85-1	5.00000	0.00089None	Vone
			Dimethylamine	68439-70-3	0.50000	0.00009None	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00017None	Vone
Ingredients shown a	above are subject to 29 (2FR 1910.1200(i) and ap	ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS), Ingredien		ts shown below are Non-MSDS	MSDS.	是 · · · · · · · · · · · · · · · · · · ·
Other Chemical(s)	Listed Above	See Trade Name(s)					
			Water	7732-18-5	85.00000	0.42197	
			Mullite	1302-93-8	85.00000	0.18706	
			Silica Crystallince-Cristobalite	14464-46-1	20.00000	0.04401	
			Non-hazardous substances	Proprietary	90.00000	0.01657	
			Guar Gum	9000-30-0	55.00000	0.00951	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00472	
			Glutaraldehyde	111-30-8	20.00000	0.00357	
			Suspending agent	1302-78-9	5.00000	0.00086	
			Dimethylamine	68439-70-3	0.50000	0.00009	

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)

^{*}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%



WELL - P5S1U UNIT BOUNDARY AREA -174.429 ACRES ±

TRACT	SURFACE OWNER	TAX MAP/PARCEL	ACRES
S1	DAVID L. & SHARON M. NAPIER	04-4-28.16	20.524
S2	DAVID L. & SHARON M. NAPIER	04-4-28.17	17.164
53	WILLIAM C. WINLAND	04-4-28.18	8.076
S4	MICHEAL S. & JASON M. HOOPER	04-4-25	23.066
S5	ROBERT TIMOTHY GUMM & LISA DAWN GUMM	04-4-24	51.0
SE	BRYAN FLEMING, ET AL	04-4-15	87.5
S7	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-15-6	266
S8	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-15-5	50.0
59	MELANIE JO MANUSE REVOCABLE TRUST	07-11-41	123.27
S10	MATTHEW A. & DAWNA M. TAYLOR	07-11-44	25.8
S11	MATTHEW A. & DAWNA M. TAYLOR	07-11-43	18.6
S12	CLINTON G. HALL, JR.	04-4-7	39.5
S13	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-15-2	27.0
S14	GOLDEN EAGLES RESOURCES LLC & HUMMER PROPERTIES LLC	07-15-12	28.944
S15	CLINTON G. HALL, JR., MAX E. & LINDA L. HALL	07-11-49	6.36
S16	GOLDEN EAGLES RESOURCES LLC & HUMMER PROPERTIES LLC	07-11-40	62.063
S17	MICHELLE L. FOURQUREAN	07-15-8.1	1.231
S18	JANET M. HANSEN	04-4-29	3.5
S19	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	04-4-51	114.0
S20	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-15-11	50.0
S21	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-15-1	52.5
S22	JUDITH M. DAVIS	07-15-8	118.769
S23	JAMES A., JASON M., JOSEPH W. & JEFFREY W. POWELL	07-11-47	49.0
S24	JAMES A., JASON M., JOSEPH W. & JEFFREY W. POWELL	07-11-46	67.0
S25	D HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	07-15-3	16.75



P.S. David L Jackson



Jay Bee
Oil & Gas
DRILLING
into the future

UPERATUR'S
WELL #: P5S1U
API #: 47-073-02588
DISTRICT: UNION
COUNTY: PLEASANTS
STATE: WV

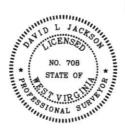
WELL PLAT

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DATE: 01/07/2022

WELL - P5S1U UNIT BOUNDARY AREA -174.429 ACRES ±

Tracts	Tax Map/Parcel Union District	Lease #	Lesson Grantus at
A	07-11-29	P7207	Lessor, Grantor, etc Jay Bee Royalty
В	07-11-45	P7208	Berry Properties, LLC
C	07-11-43	P7258	Steven Alan Amos
C	07-11-43	P7258	The Presbytery of Louisville, New Church Dev.
C	07-11-43	P7258	Thorn Family Simple Test Trust, L.T. Thorn Trustee
C	07-11-43	P7258	Ruth Savage Campbell
C	07-11-43	P7258	Sally Shingleton Merrill
C	07-11-43	P7258	Robert Carl Anderson
C	07-11-43	P7258	Robert H. Worden
C	07-11-43	P7258	Richard L. Worden
C	07-11-43	P7258	Presbyterian Church of Henderson, KY
C	07-11-43	P7258	Neil B. Worden
C	07-11-43	P7258	Meadowview Presbyterian Church
C	07-11-43	P7258	Martha R. Best
С	07-11-43	P7258	Mary Louise (Sanderson) Spencer
C	07-11-43	P7258	Linda W. Malkish
С	07-11-43	P7258	Loxley O. Shingleton
С	07-11-43	P7258	Kathryn B. Smith
С	07-11-43	P7258	Jamie M. Dawson
С	07-11-43	P7258	Eva N. Westgate
С	07-11-43	P7258	Eric W. Amos
С	07-11-43	P7258	Elizabeth R. Shingleton
С	07-11-43	P7258	Daniel G. Worden
С	07-11-43	P7258	Chapel Hill Presbyterian Church
С	07-11-43	P7258	Berry Properties, LLC
С	07-11-43	P7258	Bellewood Presbyterian Home for Children
C	07-11-43	P7258	Anita Kay Simpson
C	07-11-43	P7258	Aubra Kathleen Connour
C	07-11-43	P7258	Judith McCullough Special Commisoner For:
C	0, 11 10	1 7230	
C			Nancy W. Fischer
C			National Society to Prevent Blindness Louisville Presbyterian Seminary
C			
D	07-11-44	P7259	Kosair Charities Berry Properties, LLC
E	07-11-41	P7260	Melanie Jo Manuse Revocable Trust
F	07-15-01	APCO148A	John R. Tice
F	0, 15 01	AT CO146A	
G	07-15-05	APCO511E	APCO Energy, Inc Wiley J. Elliot
G	07-15-05	APCO511E	Leslie R. Elliot
G	07-15-05	APCO511E	lla Lee Leatherman
G	07-13-03	AFCOSITE	
Н	07-15-06	APC0511F&G	APCO Energy, Inc/JE Olds
Н	07-15-06	APC0511F&G	Wiley J. Elliot
Н	07-15-06	APC0511F&G	Leslie R. Elliot
Н	07-13-00	Arcustirau	Ila Lee Leatherman
1	07-15-03	ADCOE11C	APCO Energy, Inc/JE Olds
	07-15-03	APCO511C	Wiley J. Elliot
	07-15-03	APCO511C APCO511C	Leslie R. Elliot
	07-13-03	MPCO311C	lla Lee Leatherman
	07.15.07	ABC0149	APCO Energy, Inc/JE Olds
	07-15-07	APCO148	John R. Tice
K	07.15.00 8.01	ABC0130	APCO Energy, Inc
K	07-15-08, & 8.1	APCO120	Judith M. Davis LM Associates/Alliance Petroleum



P.S. David L Jackson

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



Jay Bee Oil & Gas DRILLING into the future DPERATOR'S

WELL #: P5S1U

API #: 47-073-02588

DISTRICT: UNION

COUNTY: PLEASANTS

STATE: WV

WELL PLAT

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DATE: 01/07/2022