

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

API 47 - 073 - 02584 County Pleasants District Union
Quad Ben's Run 7.5' Pad Name P5 Field/Pool Name Arvilla
Farm name BB Land LLC Well Number P5S1
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 337337.05 Easting 1523539.39
Landing Point of Curve Northing 337901.67 Easting 1522334.66
Bottom Hole Northing 347390.07 Easting 1516900.38

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 7/9/2019 Date drilling commenced 6/19/2019 Date drilling ceased 7/15/2019
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 132' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1719' 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 - 02584 Farm name BB Land LLC Well number P5S1

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	17.5"	13 3/8"	337'	New	H-40 48#	84' & 337'	Y
Coal							
Intermediate 1	11"	8 5/8"	2150'	New	J-55 24#	2107' & 253'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5.5"	17337'	New	P110 2#	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 ²)	Cement Top (MD)	WOC (hrs)
Conductor	Class A						
Surface	Class A	376	15.6	1.1966	450	CTS	8 hrs
Coal							
Intermediate 1	Class A	661	15.6	1.1881	785	CTS	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class A	2550	14.5	1.1742	2994	300'	8 hrs
Tubing							

Drillers TD (ft) ^{17360'} _____ Loggers TD (ft) ^{17360'} _____
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) ^{5037'} _____

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 - 02584

Farm name BB Land LLC

Well number P5S1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	12-7-20	17206	17170	72	Marcellus
2	12-7-20	17117	16924	72	Marcellus
3	12-7-20	16870	16731	72	Marcellus
4	12-8-20	16679	16510	72	Marcellus
5	12-8-20	16457	16316	72	Marcellus
6	12-8-20	16273	16128	72	Marcellus
7	12-8-20	16092	15938	72	Marcellus
8	12-9-20	15898	15751	72	Marcellus
9	12-9-20	15703	15558	72	Marcellus
10	12-10-20	15519	15358	72	Marcellus
11	12-10-20	15323	15159	72	Marcellus
12	12-10-20	15124	14956	72	Marcellus
13	12-10-20	14853	14740	72	Marcellus
14	12-11-20	14700	14558	72	Marcellus
15	12-11-20	14504	14356	72	Marcellus
16	12-11-20	14304	14160	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	12-7-20	65.7	7542	8622	2863	194354	13404	
2	12-7-20	75.2	7206	8453	3688	25980	7771	N/A
3	12-7-20	75	7237	8532	2831	260810	7458	N/A
4	12-8-20	74.9	7091	8211	3758	260786	7221	N/A
5	12-8-20	75.3	6915	8512	4155	261680	7092	N/A
6	12-8-20	75.7	7039	8022	3186	262870	7045	N/A
7	12-8-20	75.2	6940	8311	3988	260960	7150	N/A
8	12-9-20	74.7	6915	8395	3165	262900	7337	N/A
9	12-9-20	75.2	7063	8412	4112	262880	7063	N/A
10	12-10-20	75.5	6778	8354	3310	222550	6611	N/A
11	12-10-20	75.1	6880	8262	3325	243720	6596	N/A
12	12-10-20	75.8	6719	8311	3412	233350	6677	N/A
13	12-10-20	74.9	6615	8341	3188	216050	6890	N/A
14	12-11-20	75	6659	8355	3212	240420	7260	N/A
15	12-11-20	75.1	6634	8412	3361	199680	6565	N/A
16	12-11-20	75.3	6552	8364	3412	223870	6698	N/A

Please insert additional pages as applicable.

API 47-073 - 02584

Farm name BB Land LLC

Well number P5S1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	12-11-20	14110	13955	72	Marcellus
18	12-12-20	13919	13783	72	Marcellus
19	12-12-20	13730	13601	72	Marcellus
20	12-12-20	13536	13379	72	Marcellus
21	12-12-20	13340	13198	72	Marcellus
22	12-12-20	13163	13008	72	Marcellus
23	12-13-20	12953	12763	72	Marcellus
24	12-13-20	12696	12566	72	Marcellus
25	12-13-20	12519	12408	72	Marcellus
26	12-13-20	12358	12201	72	Marcellus
27	12-13-20	12142	12011	72	Marcellus
28	12-13-20	11954	11801	72	Marcellus
29	12-14-20	11756	11580	72	Marcellus
30	12-14-20	11536	11406	72	Marcellus
31	12-14-20	11352	11200	72	Marcellus
32	12-14-20	11150	10998	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	12-11-20	75.3	6552	8309	3412	223870	6698	N/A
18	12-12-20	70.4	6340	8345	2963	258740	7821	N/A
19	12-12-20	74.8	6488	8412	3155	220620	7004	N/A
20	12-12-20	75.1	6955	8596	3285	220840	6955	N/A
21	12-12-20	74.9	6449	8399	3849	220040	6789	N/A
22	12-12-20	75.3	6502	8347	4114	185710	5871	N/A
23	12-13-20	76.1	6647	8425	2588	185710	5871	N/A
24	12-13-20	75.8	6532	8299	3812	220580	7021	N/A
25	12-13-20	76	6991	8612	3725	221110	6991	N/A
26	12-13-20	75.3	6195	8299	3468	220150	6614	N/A
27	12-13-20	75	6249	8334	3869	219900	6597	N/A
28	12-13-20	74.7	6174	8212	3751	219800	7353	N/A
29	12-14-20	75	6062	8053	3963	220790	6980	N/A
30	12-14-20	76.1	6096	8101	4163	220990	6866	N/A
31	12-14-20	76.8	6170	8210	3562	220680	6895	N/A
32	12-14-20	74.5	6081	7964	3510	220400	6685	N/A

Please insert additional pages as applicable.

API 47-073 - 02584

Farm name BB Land LLC

Well number P5S1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	12-14-20	10956	10801	72	Marcellus
34	12-15-20	10756	10612	72	Marcellus
35	12-15-20	10544	10426	72	Marcellus
36	12-15-20	10394	10206	72	Marcellus
37	12-15-20	10162	10003	72	Marcellus
38	12-20-20	9944	9826	72	Marcellus
39	12-20-20	9778	9626	72	Marcellus
40	12-20-20	9563	9420	72	Marcellus
41	12-20-20	9378	9235	72	Marcellus
42	12-20-20	9193	9044	72	Marcellus
43	12-21-20	8998	8863	72	Marcellus
44	12-21-20	8806	8666	72	Marcellus
45	12-21-20	8622	8469	72	Marcellus
46	12-21-20	8430	8248	72	Marcellus
47	12-21-20	8201	8051	72	Marcellus
48	12-21-20	8007	7882	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	12-14-20	74.6	6070	7977	3477	220400	6611	N/A
34	12-15-20	76.1	6187	8001	3412	217700		N/A
35	12-15-20	75.4	6104	8112	4209	220980	6820	N/A
36	12-15-20	76.4	6125	7815	3810	220650	6849	N/A
37	12-15-20	75	5950	7922	3215	220320	5950	N/A
38	12-20-20	75.4	5916	7712	3207	222000	5916	N/A
39	12-20-20	75.2	5966	7776	3268	223910	5966	N/A
40	12-20-20	75.3	6493	7866	3789	220850	6493	N/A
41	12-20-20	75.3	5833	7699	3271	220500	6298	N/A
42	12-20-20	74.2	5934	7722	3301	223070	6525	N/A
43	12-21-20	75.2	5876	7693	3204	222760	6525	N/A
44	12-21-20	75.2	5884	7702	3285	221880	6389	N/A
45	12-21-20	75.1	5748	7512	2996	222520	6547	N/A
46	12-21-20	75.2	5731	7610	3244	221540	6467	N/A
47	12-21-20	75.6	5598	7589	2989	221430	6415	N/A
48	12-21-20	75.5	5248	7555	2499	221160	6319	N/A

Please insert additional pages as applicable.

API 47-073 - 02584

Farm name BB Land LLC

Well number P5S1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
49	12-22-20	7843	7680	72	Marcellus
50	12-22-20	7634	7472	72	Marcellus
51	12-22-20	7431	7278	72	Marcellus
52	12-26-20	7242	7053	72	Marcellus
53	12-26-20	7001	6886	72	Marcellus
54	12-26-20	6840	6655	72	Marcellus
55	12-26-20	6630	6523	72	Marcellus
56	12-26-20	6476	6319	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)
49	12-22-20	75.3	5157	7512	2511	221580	6484	N/A
50	12-22-20	75.3	4975	7399	2622	222860	6387	N/A
51	12-22-20	75.2	6415	7622	2799	222870	6415	N/A
52	12-26-20	75.3	5622	7503	3215	220960	6466	N/A
53	12-26-20	74.8	5810	7298	3312	221510	6538	N/A
54	12-26-20	75	5789	7110	3388	218340	6530	N/A
55	12-26-20	73	5846	7201	3125	221350	6529	N/A
56	12-26-20	75	5580	7038	2833	230510	5891	N/A

Please insert additional pages as applicable.

API 47- 073 - 02584 Farm name BB Land LLC Well number P5S1

PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus</u>	<u>5777'</u> TVD	<u>17360'</u> 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	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
See Attached	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

05/13/2022

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: 47-073-02584 County: Pleasants
District: Union Well No: P5S1
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 : 47-073-02584

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 : 47-073-02584

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/Bt
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 - 02584 _____ ;
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:	12/7/2020
Job End Date:	12/27/2020
State:	West Virginia
County:	Pleasants
API Number:	47-073-02584-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	P5 S1
Latitude:	39.41547000
Longitude:	-81.07504000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,365
Total Base Water Volume (gal):	16,254,420
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

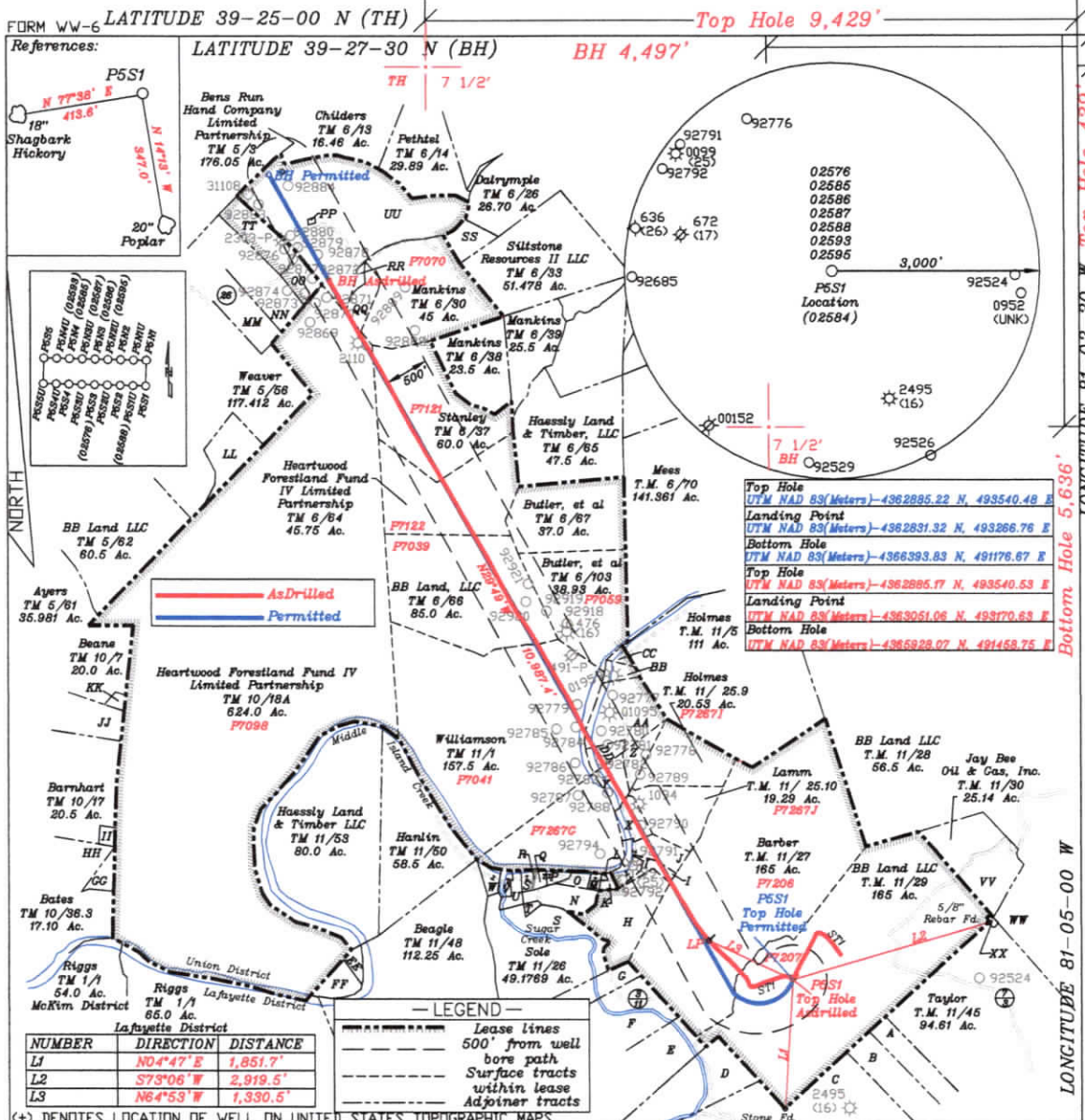
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Jay-Bee Oil and Gas	Carrier/Base Fluid	Water	7732-18-5	100.00000	90.68920	None
Sand(30/50 Mesh) Proppant	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	3.06531	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	2.97462	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	1.77497	None
Hydrochloric Acid (15%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.56313	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.24513	None
Sand (20/40 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	0.69281	None
ProSlick 100	EES	Friction Reducer					

			Hydrotreated Light Petroleum Disulfate	64742-47-8	30.00000	0.02561	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00427	None
ProCheck 100	EES	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.01712	None
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00190	None
ProVis 4.0	EES	Gel	Petroleum Disulfate	64742-47-8	55.00000	0.00850	None
			Guar Gum	9000-30-0	55.00000	0.00850	None
			Suspending agent	1302-78-9	5.00000	0.00077	None
Bioclear 1430	EES	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00382	None
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	5.00000	0.00095	None
			Dimethylamine	68439-70-3	0.50000	0.00010	None
ProHib 100	ProFrac	Acid Inhibitor	2-Propyn-1-ol compound w/ methoxyirane	38172-91-7	15.00000	0.00025	None
Ingredients shown above are subject to 29 CFR 1910.1200(j) 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	0.56313	
			Non-hazardous substances	Proprietary	90.00000	0.01712	
			Guar Gum	9000-30-0	55.00000	0.00850	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00427	
			Glutaraldehyde	111-30-8	20.00000	0.00382	
			Suspending agent	1302-78-9	5.00000	0.00077	
			Dimethylamine	68439-70-3	0.50000	0.00010	

* 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

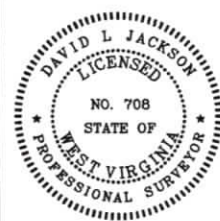
PROVEN SOURCE OF ELEVATION GPS

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 05, 2022

OPERATOR'S WELL NO. P5S1

API WELL NO. 47 - 073 - 02584

STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL _____

(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 868.8' 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 Roger Wells, Howard Wells, J.R. Wells, Clint Jones, Beverly Walker, Sara Wells & Thomas Dunsford, Yvonne Shelley 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 Marcellus ESTIMATED DEPTH TVD = 5,777'; TMD = 17,361'

WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda

ADDRESS 60 Walnut Avenue, Suite 190, Clark NJ 07066 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

05/13/2022

JACKSON SURVEYING
 INC.
 2413 East Pike Street
 #112
 Clarksburg, WV 26301
 304-623-5851

WELL BORE TABLE FOR PROPERTY OWNERS					
TRACT	OWNER	TM	PARCEL	ACRES	Lease Numbers
A	TAYLOR	11	/ 43	18.6	
B	TAYLOR	11	/ 44	25.8	
C	MELANIE JO MANUSE REVOCABLE TRUST	11	/ 41	123.27	
D	GOLDEN EAGLES RESOURCES LLC & HUMMER PROPERTIES LLC	11	/ 40	62.063	
E	HALL	11	/ 34	38.33	
F	GOLDEN EAGLE RESOURCES LLC	11	/ 35	30.893	
G	WILLIAMSON	11	/ 33	14.25	
H	K. HOLMES	11	/ 25.12	21.267	P7267L
I	J. HOLMES	11	/ 25.14	2.268	P7267K
J	HOLMES	11	/ 25.11	8.381	P7267K
K	MYERS	11	/ 25.6	0.581	
L	BAILEY	11	/ 25.13	0.624	
M	SCHULTHEIS	11	/ 25.5	0.75	
N	K. HOLMES	11	/ 25.3	5.621	
O	WHARTON	11	/ 25.4	2.25	
		11	/ 25.8	TOTAL	
P	STOUT	11	/ 23.1	0.524	
Q	MYERS & NEAL	11	/ 24	0.21	
R	STOUT	11	/ 23.2	0.084	
S	POYNTER	11	/ 23	0.93	
T	SUGAR VALLEY SCHOOL	11	/ 25.1	0.57	
U	SHIMER	11	/ 22	3.63	
V	DEPARTMENT OF NATURAL RESOURCES	11	/ 22.1	1.37	
W	BEAGLE	11	/ 21	1.0	
X	MIXER	11	/ 25	5.033	P7267A
Y	BURIAN	11	/ 2	6.1	P7267
Z	MIXER	11	/ 25.2	4.687	P7267B
AA	RONALD HOLMES, ET AL	11	/ 3	18.453	P7267O
BB	ROGER HOLMES	11	/ 3.1	1.75	P7267P
CC	ROGER HOLMES	11	/ 4	1.0	P7267R
DD	EDWARD HOLMES	11	/ 3.2	3.447	P7267Q
EE	TICE	11	/ 51.1	1.0	
FF	THAXTON II	11	/ 51	5.564	
GG	RIGGS	10	/ 49	4.0	
HH	BARNHART	10	/ 24	25	
II	BARNHART	10	/ 26	1.0	
JJ	BARNHART	10	/ 25	10.0	
KK	BARNHART	10	/ 7.1	1.0	
LL	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	5	/ 56.1	12.5	
MM	ASH	5	/ 36	15.0	
NN	METZ	5	/ 37	20.0	
OO	BENNETT	6	/ 109	5.011	
PP	CEMETERY				P7013A
QQ	MCCARTNEY	6	/ 30.1	6.0	P7070A
RR	MCCARTNEY	6	/ 31	0.75	P7070B
SS	LEWIS	6	/ 32	6.08	
TT	NICHOLS	5	/ 38	11.21	
UU	HEARTLAND FORESTLAND FUND IV LIMITED PARTNERSHIP	6	/ 100	84	P7113
VV	JAY BEE OIL & GAS, INC.	11	/ 31	13.11	
WW	HORNER, ET AL	11	/ 32	231.82	
XX	GARDNER CEMETERY	11	/ 32	231.82	



P.S. 708 *David L Jackson*