

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

API 47-073-02583-00 County Pleasants District Union
Quad Ben's Run 7.5' Pad Name P4 Field/Pool Name _____
Farm name John A. & Edith U. Smith Well Number P4S5U
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.
Address 3570 Shields Hill Road City Cairo State WV Zip 26337

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4364085.10 Easting 493998.52
Landing Point of Curve Northing 4363825.11 Easting 493873.33
Bottom Hole Northing 4361203.09 Easting 495242.39

Elevation (ft) 957.6' 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)
Anco Synthetic Based Mud System (oil base)

Date permit issued 12/21/2018 Date drilling commenced 2/18/2019 Date drilling ceased 3/28/2019
Date completion activities began 5/12/2020 Date completion activities ceased 6/7/2020
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 216' Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
MAY 03 2021
WV Department of Environmental Protection
06/18/2021

API 47-073 - 02583-00 Farm name John A. & Edith U. Smith Well number P4S5U

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	Grouted
Surface	22"	18 5/8"	375'	New	J55-87.5#	84'-332'	Yes
Coal							
Intermediate 1	17.5"	13 3/8"	2,103"	New	J55-61#	342'-2,060'	Yes
Intermediate 2	12 1/4"	9 5/8"	9,342'	New	HCP110-47#	2,164'-5,933'	Yes
Intermediate 3							
Production	8.5"	5.5"	21,004'	New	P110-23#	n/a	No
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							
Surface	Class A	569	15.6	1.1966	680	CTS	8
Coal							
Intermediate 1	Class A	1,477	15.6	1.1859	1,752	CTS	8
Intermediate 2	Class A	1,468	12.5-15	2.3095-1.3255	3,013	CTS	8
Intermediate 3							
Production	Class A	3,714	15.6	1.1820	4,290	3500'	8
Tubing							

Drillers TD (ft) 21,025' Loggers TD (ft) 20,966'
 Deepest formation penetrated Point Pleasant Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 9,507'

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 place every 90' in lateral section.
 90 degree _____
 90-70 degree every second joint _____
 70 degree - KOP every third joint _____
 KOP - Surface centralizers placed 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 _____

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API 47- 073 - 02583-00 Farm name John A. & Edith U. Smith Well number P4S5U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/12/20	20909	20794	95	Point Pleasant
2	5/12/20	20758	20663	95	Point Pleasant
3	5/13/20	20626	20527	95	Point Pleasant
4	5/13/20	20485	20303	95	Point Pleasant
5	5/14/20	20256	20130	95	Point Pleasant
6	5/15/20	20068	19930	95	Point Pleasant
7	5/15/20	19872	19734	95	Point Pleasant
8	5/16/20	19680	19537	95	Point Pleasant
9	5/17/20	19498	19344	95	Point Pleasant
10	5/17/20	19298	19151	95	Point Pleasant
11	5/18/20	19110	18964	95	Point Pleasant
12	5/18/20	18922	18793	95	Point Pleasant
13	5/19/20	18743	18589	95	Point Pleasant
14	5/19/20	18528	18395	95	Point Pleasant
15	5/20/20	18340	18184	95	Point Pleasant
16	5/20/20	18134	18016	95	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	5/12/20	53.7	11,402	11,952	8,599	44,000	7,675	n/a
2	5/12/20	60.6	11,443	10,941	8,174	469,780	10,814	n/a
3	5/13/20	62.9	11,484	12,688	7,201	343,640	10,742	n/a
4	5/13/20	64.1	10,846	12,350	7,403	473,260	10,124	n/a
5	5/14/20	70.0	10,755	12,262	7,567	467,850	10,682	n/a
6	5/15/20	69.2	10,694	11,930	7,071	474,810	10,619	n/a
7	5/15/20	66.9	10,897	11,635	7,910	441,180	9,519	n/a
8	5/16/20	69.1	10,603	10,691	7,595	468,440	10,257	n/a
9	5/17/20	71.2	10,822	8,856	7,004	468,120	9,605	n/a
10	5/17/20	72.9	10,779	9,964	7,412	460,390	10,068	n/a
11	5/18/20	73.7	10,690	8,790	6,965	474,941	9,121	n/a
12	5/18/20	73.7	10,754	9,435	7,512	479,560	9,320	n/a
13	5/19/20	73.2	10,931	8,765	7,965	477,280	9,064	n/a
14	5/19/20	73.6	10,818	9,089	7,290	473,510	9,217	n/a
15	5/20/20	74.1	10,608	8,234	8,104	479,630	8,992	n/a
16	5/20/20	74.9	10,556	8,841	7,490	480,600	8,976	n/a

Please insert additional pages as applicable.

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	5/21/20	17963	17820	95	Point Pleasant
18	5/23/20	16492	16356	95	Point Pleasant
19	5/23/20	16318	16198	95	Point Pleasant
20	5/24/20	16164	16023	95	Point Pleasant
21	5/24/20	15971	15857	95	Point Pleasant
22	5/25/20	15803	15634	95	Point Pleasant
23	5/25/20	15574	15434	95	Point Pleasant
24	5/26/20	15390	15240	95	Point Pleasant
25	5/26/20	15204	15042	95	Point Pleasant
26	5/27/20	14986	14860	95	Point Pleasant
27	5/27/20	14803	14674	95	Point Pleasant
28	5/28/20	14634	14480	95	Point Pleasant
29	5/28/20	14439	14286	95	Point Pleasant
30	5/29/20	14244	14078	95	Point Pleasant
31	5/29/20	14036	13884	95	Point Pleasant
32	5/30/20	13828	13702	95	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	5/21/20	74.3	10,621	8,071	8,066	453,500	9,109	n/a
18	5/23/20	72.7	10,099	11,610	7,138	479,480	11,088	n/a
19	5/23/20	73.8	10,402	10,408	7,460	448,600	9,080	n/a
20	5/24/20	74.3	10,394	9,138	7,923	480,850	9,025	n/a
21	5/24/20	73.7	10,800	8,385	7,374	479,320	9,073	n/a
22	5/25/20	74.2	10,722	10,856	7,759	466,110	8,861	n/a
23	5/25/20	73.6	10,609	9,078	7,297	477,040	8,944	n/a
24	5/26/20	73.0	10,979	10,959	7,380	485,110	9,271	n/a
25	5/26/20	72.1	10,995	10,548	7,173	478,820	8,819	n/a
26	5/27/20	72.3	11,056	11,080	7,263	473,800	8,997	n/a
27	5/27/20	74.4	10,836	8,338	7,071	480,460	9,169	n/a
28	5/28/20	76.0	10,732	9,160	7,217	483,700	8,866	n/a
29	5/28/20	70.1	10,548	11,249	7,631	480,980	8,893	n/a
30	5/29/20	74.5	10,618	8,822	7,753	476,940	8,853	n/a
31	5/29/20	75.0	10,453	11,827	7,383	472,180	9,709	n/a
32	5/30/20	79.8	10,657	9,626	7,535	475,100	9,167	n/a

Please insert additional pages as applicable.

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	5/31/20	13660	13438	95	Point Pleasant
34	5/31/20	13446	13304	95	Point Pleasant
35	6/1/20	13256	13118	95	Point Pleasant
36	6/1/20	13078	12920	95	Point Pleasant
37	6/2/20	12875	12740	95	Point Pleasant
38	6/2/20	12696	12538	95	Point Pleasant
39	6/3/20	12594	12354	95	Point Pleasant
40	6/3/20	12306	12155	95	Point Pleasant
41	6/4/20	12091	11947	95	Point Pleasant
42	6/4/20	11898	11760	95	Point Pleasant
43	6/4/20	11714	11570	95	Point Pleasant
44	6/5/20	11514	11377	95	Point Pleasant
45	6/6/20	11320	11192	95	Point Pleasant
46	6/6/20	11144	11017	95	Point Pleasant
47	6/6/20	10962	10805	95	Point Pleasant
48	6/7/20	10768	10646	95	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	5/31/20	76.1	10,670	9,191	7,455	437,200	9,701	n/a
34	5/31/20	70.4	10,740	10,751	7,597	472,700	11,552	n/a
35	6/1/20	72.4	10,273	12,138	7,308	471,720	9,440	n/a
36	6/1/20	71.4	10,209	11,823	7,528	474,650	9,835	n/a
37	6/2/20	74.0	9,920	11,129	7,407	470,700	9,250	n/a
38	6/2/20	74.6	9,952	9,652	7,827	477,770	8,784	n/a
39	6/3/20	75.0	10,292	10,875	7,423	473,590	9,203	n/a
40	6/3/20	75.4	9,975	11,627	7,873	476,460	8,930	n/a
41	6/4/20	75.7	9,926	10,244	7,697	475,790	8,746	n/a
42	6/4/20	75.2	10,021	10,668	7,343	474,000	9,062	n/a
43	6/4/20	75.5	9,804	10,292	7,346	474,800	8,757	n/a
44	6/5/20	75.9	9,421	9,062	7,669	471,360	9,017	n/a
45	6/6/20	76.0	9,647	9,211	7,527	473,110	8,448	n/a
46	6/6/20	77.7	9,761	10,313	7,630	470,460	9,037	n/a
47	6/6/20	77.6	9,894	9,980	7,525	465,020	8,605	n/a
48	6/7/20	74.9	9,818	10,703	7,583	463,610	8,540	n/a

Please insert additional pages as applicable.

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API 47- 073 - 02583-00 Farm name John A. & Edith U. Smith Well number P4S5U

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Point Pleasant</u>	<u>10,328'</u>	<u>TVD</u>	<u>21,020'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 7,300 psi Bottom Hole _____ psi DURATION OF TEST 96 hrs

OPEN FLOW Gas 11,300 mcfpd Oil _____ bpd NGL _____ bpd Water 250 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	
	<u>0</u>		<u>0</u>		
	<u>See Attached</u>				

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 Kim Swiger Telephone 304-628-3111
Signature *Kim Swiger* Title Permitting Agent Date 4/20/2021
Office of Oil and Gas

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry 03 2021

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 02583 ;

Acreage _____ ;

Watershed Middle Island Creek ;

District Union ;

County Pleasants ;

Public Road Access Arvilla Road ;

Generally used farm name Jay-Bee Oil & Gas, Inc. ;

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

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06/18/2021

JAY BEE OIL & GAS INC.		
2/1/2019	P4 Pad	979 KB
	ELEVATION	958
FORMATION	TVD TOP at KB	
INJUN	2010	
GORDON	2768	
HAMILTON	5318	
UPPER Marcellus	5792	
PARCELL LME	5803	
LOWER MARCELLUS	5885	
Onondaga	5934	
Oriskany	6122	
Bass Islands	6600	
Salina	6656	
Wills Creek	7289	
Lockport	7529	
McKenzie	7743	
Rose Hill	7832	
Clinton-Medina	8201	
Queenston	8385	
Reedsville	9177	
Utica	10083	
Point Pleasant SH	10227	
Trenton	10328	

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06/18/2021

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/11/2020
Job End Date:	6/7/2020
State:	West Virginia
County:	Pleasants
API Number:	47-073-02583-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	P4 S5U
Latitude:	39.42627600
Longitude:	-81.06972900
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,833
Total Base Water Volume (gal):	18,639,628
Total Base Non Water Volume:	0



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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	86.96953	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	5.33847	None
Sand(30/50 Mesh) Proppant	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	4.66466	None
Sand (100 Mesh Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	2.18374	None
Hydrochloric Acid (15%)	PVS	Acidizing	Water	7732-18-5	85.00000	0.40099	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.17455	None
Sand(30/50 Carbolite)	Jay-Bee Oil and Gas	Proppant	Mullite	1302-93-8	85.00000	0.17744	None
			Silicon Dioxide, (amorphous as glass)	7631-86-9	35.00000	0.07307	None
			Silica Crystalline-Cristobalite	14464-46-1	20.00000	0.04175	None

ProSlick 100	EES	Friction Reducer					
			Hydrotreated Light Petroleum Disillate	64742-47-8	30.00000	0.02810	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00468	None
ProCheck 300	EES	Scale Inhibitor					
			Non-Hazardous substances	PROPRIETARY	100.00000	0.02448	None
4.0 Guar Slurry	Solvay	Gel					
			Hydrotreated Light Petroleum Disillate	64742-47-8	60.00000	0.01262	None
			Guar Gum	9000-30-0	50.00000	0.01052	None
BIOC11139A	Champion X	Biocide					
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00667	None
			Glutaraldehyde	111-30-8	10.00000	0.00222	None
			Ethanol	64-17-5	5.00000	0.00111	None
ProHib 100	ProFrac	Acid Inhibitor					
			2-Propyn-1-ol compound w/ methyloxirane	38172-91-7	15.00000	0.00022	None
ProBreak 100	Champion X	Breaker					
			Ammonium Persulphate	7727-54-0	100.00000	0.00022	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	0.40099	
			Mullite	1302-93-8	85.00000	0.17744	
			Silica Crystalline-Cristobalite	14464-46-1	20.00000	0.04175	
			Guar Gum	9000-30-0	50.00000	0.01052	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00468	
			Glutaraldehyde	111-30-8	10.00000	0.00222	
			Ethanol	64-17-5	5.00000	0.00111	

* 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)

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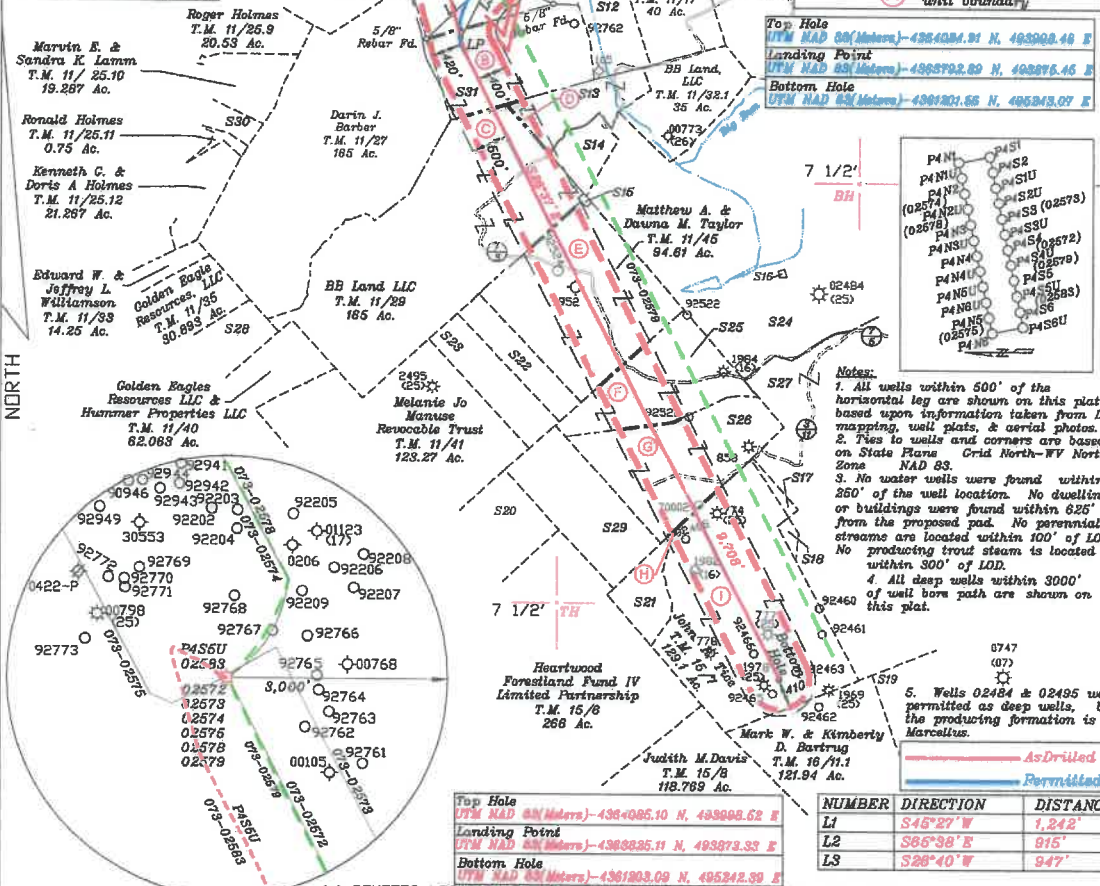
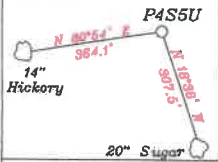
LATITUDE 39-27-30 N (TH)
 LATITUDE 39-25-00 N (BH)

Top Hole 7,924'

Bottom Hole 3,839'

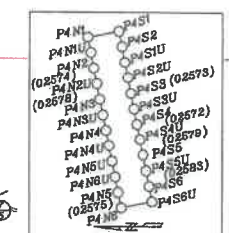
P4S5U
 UNIT BOUNDARY AREA -
 207.9166 ACRES ±

References:



- - - - - Unit Boundary Line
400' from Bore Path
- - - - - 500' from Bore Path
- - - - - Well Lateral
- - - - - Point Pleasant Legs
within 3000' (proposed)
- - - - - Leased Tracts
- - - - - Surface Tracts
- (A) Oil & gas tracts within
unit boundary

Top Hole
 UTM NAD 83 (Meters) - 4364084.21 N, 493908.46 E
 Landing Point
 UTM NAD 83 (Meters) - 4363792.89 N, 493876.45 E
 Bottom Hole
 UTM NAD 83 (Meters) - 4361202.55 N, 493543.07 E



- 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 units 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 proposed pad. No perennial streams are located within 100' of LOD. No producing trend steam is located within 300' of LOD.
 4. All deep wells within 3000' of well bore path are shown on this plat.
 5. Wells 02484 & 02495 were permitted as deep wells, but the producing formation is Marcellus.

NUMBER	DIRECTION	DISTANCE
L1	S45°27'W	1,242'
L2	S66°38'E	815'
L3	S28°40'W	947'

NORTH

LONGITUDE 81-02-30 W
 LONGITUDE 81-02-30 W
 Top Hole 11,678'
 Bottom Hole 5,956'

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 July 22, 2020
 OPERATOR'S WELL NO. P4S5U
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL _____
 (IF 'GAS') PRODUCTION X STORAGE DEEP X SHALLOW _____
 LOCATION: ELEVATION 957.6' WATER SHEET Big Run of Outlet Middle Island Creek (HUC-10)
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Bens Run 7 1/2'

SURFACE OWNER John A. Smith & Edith U. Smith ACREAGE 189.21 Ac.
 OIL & GAS ROYALTY OWNER John A. Smith & Edith U. Smith LEASE ACREAGE 189.21 Ac.
 LEASE NO P7019

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 = 10,328'; TMD = 21,020'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda WV Department of
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, EN

RECEIVED
 Office of Oil and Gas
 MAY 03 2021

06/18/2021

P455U
UNIT BOUNDARY AREA -
207.9166 ACRES ± OF

Number	TAX MAP--PARCEL	SURFACE OWNER	ACRES
S1	11-12	MELISSA A. BLAKE	5.0
S2	11-13	PAMELA JO BOWIE	3.25
S3	11-14	PAMELA JO BOWIE	12.855
S4	6-106	JOHN A. & EDITH U. SMITH	21.46
S5	6-84	KEVIN S. BUZZARD	10.5
S6	6-108	REGULAR BAPTIST CHURCH OF JESUS CHRIST	2.0
S7	6-85	JAY BEE OIL AND GAS INC.	27.53
S8	7-28	WELLS CATTLE FARMS, INC.	34.46
S9	6-105	JERRY CORRIGAN	2.165
S10	11-16.1	ANTHONY L. LAUER & DEVIN L. LAUER	1.5
S11	11-16.2	ANTHONY L. LAUER & DEVIN L. LAUER	3.29
S12	11-18	BB LAND, LLC	26.75
S13	11-30	JAY BEE OIL AND GAS, INC.	25.14
S14	11-31	JAY BEE OIL AND GAS, INC.	13.11
S15	11-45.1	GARDNER CEMETERY	0.39
S16	12-40	HORNER CEMETERY	0.155
S17	16-29	MARY THORN ANDERSON	2.7
S18	16-28	JOHN R. TICE	1.89
S19	16-12	MARK W. BARTRUG & KIMBERLY D. BARTRUG	62.16
S20	15-5	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	50.0
S21	15-3	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	16.75
S22	11-43	MATTHEW A. & DAWNA M. TAYLOR	18.8
S23	11-44	MATTHEW A. & DAWNA M. TAYLOR	25.8
S24	11-32	LARRY WILLIAM HORNER, GARRY L. HORNER, NORMA JEAN FARSON, & LINDA LOU FETTY	210.82
S25	11-47	JAMES A., JASON M., JOSEPH P. & JEFFREY W. POWELL	49.0
S26	11-46	JAMES A., JASON M., JOSEPH P. & JEFFREY W. POWELL	67.0
S27	12-21	JAMES A., JASON M., JOSEPH P. & JEFFREY W. POWELL	172.0
S28	11-34	CLINTON C. HALL JR., MAX E. & LINDA L. HALL	38.33
S29	15-1	HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP	52.5
S30	11-25.14	JOSHUA & ABIGAIL HOLMES	2.268
S31	11-28	BB LAND LLC	56.5

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

Tract Letter	Tax Map	Parcel #	Tract #	Oil & Gas Owners
A	11	16	P7019	John A. & Edith U. Smith
B	11	28	P7205	Jay-Bee Royalty
C	11	29	P7207	Jay-Bee Royalty
D	11	30	P7057	Robert R. and Michelle A. Akers
E	11	45	P7208	Berry Properties, LLC
(F, G)	11	47, 46	APCO 293	Powell et al
H	15	3	APCO511C	APCO Energy, Inc.
H	15	3	APCO511C	Leslie R. Elliott c/o The Elliott Family Trust, Elaine S. Elliott as Trustee
H	15	3	APCO511C	Wiley J. Elliott c/o The Elliott Family Trust, Elaine S. Elliott as Trustee
H	15	3	APCO511C	Ila Lee Leatherman
I	15	7	APCO148	John Tice
I	15	7	APCO148	APCO Energy, Inc.



P.S.
708
David L Jackson



Jay Bee
Oil & Gas
DRILLING
into the future

OPERATOR'S
WELL #: P455U- (02583)
DISTRICT: UNION
COUNTY: PLEASANTS
STATE: WV

RECEIVED
P455U Well Plat
Office of Oil and Gas
PAGE 2 OF 2
DATE: 7/22/2020
MAY 03 2021

WV Department of
Environmental Protection

06/18/2021

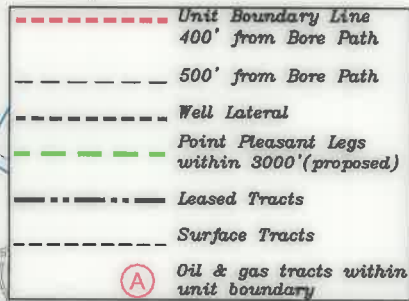
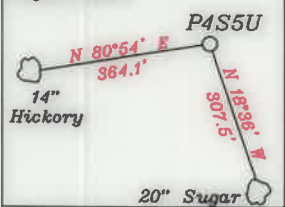
P4S5U

LATITUDE 39-25-00 N (BH)

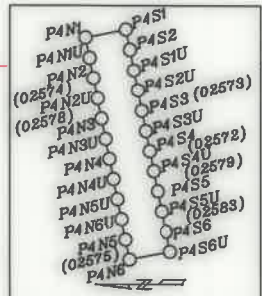
Bottom Hole 3,839'

UNIT BOUNDARY AREA - 207.9166 ACRES ±

References:

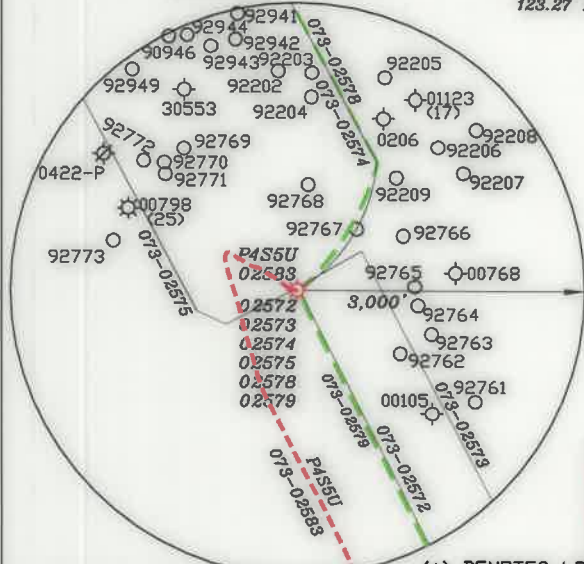


Top Hole UTM NAD 83(Meters)-4364084.91 N, 493998.48 E
Landing Point UTM NAD 83(Meters)-4363792.89 N, 493875.45 E
Bottom Hole UTM NAD 83(Meters)-4361201.56 N, 495243.07 E



- 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 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.

NORTH



Top Hole UTM NAD 83(Meters)-4364085.10 N, 493998.52 E
Landing Point UTM NAD 83(Meters)-4363825.11 N, 493873.33 E
Bottom Hole UTM NAD 83(Meters)-4361203.09 N, 495242.39 E

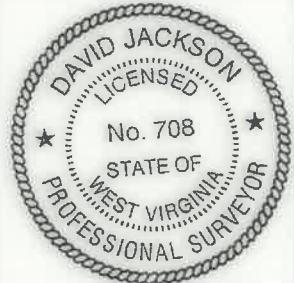
Table with 3 columns: NUMBER, DIRECTION, DISTANCE. Rows: L1 S45°27' W 1,242', L2 S65°38' E 915', L3 S26°40' W 947'

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

FILE NO.
DRAWING NO. 1
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION GPS
submeter unit

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R.P.E. P.S. 708



STATE OF WEST VIRGINIA Division of Environmental Protection OFFICE OF OIL AND GAS
DATE July 22, 2020
OPERATOR'S WELL NO. P4S5U
API WELL NO. 47-073-02583
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
STATE COUNTY PERMIT
LOCATION: ELEVATION 957.6' WATER SHED Big Run of Outlet Middle Island Creek (HUC-10)
DISTRICT Union COUNTY Pleasants
QUADRANGLE Bens Run 7 1/2'
SURFACE OWNER John A. Smith & Edith U. Smith. ACREAGE 189.21 Ac.
OIL & GAS ROYALTY OWNER John A. Smith & Edith U. Smith. LEASE ACREAGE 189.21 Ac.
LEASE NO. P7019
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PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD = 10,328'; TMD = 21,020'
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

Longitude 81-02-30 W Bottom Hole 5,956' Top Hole 11,678' Longitude 81-02-30 W Top Hole 7,924'

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