

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

API 47-095-02443-00 County Tyler District Ellsworth
Quad Middlebourne 7.5' Pad Name Curly Pad Field/Pool Name _____
Farm name Jay-Bee Oil & Gas, Inc. Well Number Curly 2
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 4368256.7 Easting 508846.7
Landing Point of Curve Northing 4368130.6 Easting 508848.2
Bottom Hole Northing 4365948.2 Easting 509609.4
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Elevation (ft) 1,124.55' 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 2/6/2018 Date drilling commenced 4/21/2018 Date drilling ceased 5/3/2018
Date completion activities began 10/17/2018 Date completion activities ceased 11/4/2018
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 452' 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

Reviewed by:
JCB
6/18/2020

API 47-095 - 02443-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 2

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			Y
Surface	17" 1/2"	13" 3/8"	502'	New	H40-48#	94'-465'	Y
Coal							
Intermediate 1	11"	8" 5/8"	2,385'	New	J55-24#	84'-234'	Y
Intermediate 2							
Intermediate 3							
Production	7" 7/8"	5" 1/2"	14,651'	New	P110-23#		Y
Tubing							
Packer type and depth set							RECEIVED Office of Oil and Gas

Comment Details _____ JUN 12 2020

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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	508	15.6	1.196	608	CTS	8
Coal							
Intermediate 1	Class A	760	15.6	1.188	903	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	21,212	14.5	1.17	2483	300' FS	8
Tubing							

Drillers TD (ft) 14,661' _____ Loggers TD (ft) 14,661' _____
 Deepest formation penetrated Marcellus _____ Plug back to (ft) n/a _____
 Plug back procedure n/a _____

Kick off depth (ft) 5,950' _____

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 _____
90 degree

90-70 degree every second joint

70 degree - KOP every third joint

KOP - Surface centralizer 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 _____

API 47- 095 - 02443-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/17/18	14450	14428	97	Marcellus
2	10/17/18	14394	14232	72	Marcellus
3	10/17/18	14180	13997	72	Marcellus
4	10/17/18	13962	13794	72	Marcellus
5	10/17/18	13735	13590	72	Marcellus
6	10/18/18	13556	13394	72	Marcellus
7	10/20/18	13352	13194	72	Marcellus
8	10/20/18	13156	13026	72	Marcellus
9	10/21/18	12981	12806	72	Marcellus
10	10/21/18	12763	12602	72	Marcellus
11	10/21/18	12502	12416	72	Marcellus
12	10/24/18	12372	12224	72	Marcellus
13	10/24/18	12174	11996	72	Marcellus
14	10/25/18	11940	11813	72	Marcellus
15	10/25/18	11758	11594	72	Marcellus
16	10/25/18	11528	11400	72	Marcellus

Please insert additional pages as applicable.

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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	10/17/18	69.7	6891	n/a	4224	250900	7554	n/a
2	10/17/18	79.8	7244	5339	4625	252260	8184	n/a
3	10/17/18	81.8	6990	5409	4532	252080	7683	n/a
4	10/17/18	79.9	6965	5510	3708	249650	7186	n/a
5	10/17/18	78.5	6803	5876	3679	250580	7704	n/a
6	10/18/18	80	6837	6166	3824	251260	6656	n/a
7	10/20/18	79.9	6860	6244	4032	250440	7290	n/a
8	10/20/18	79.9	6864	5581	4576	253990	6808	n/a
9	10/21/18	80.7	6991	5919	3960	253440	7021	n/a
10	10/21/18	74.8	7735	6609	3504	262000	12020	n/a
11	10/21/18	79.9	6885	6472	4375	255600	7112	n/a
12	10/24/18	79.8	6984	6742	4239	254700	7144	n/a
13	10/24/18	62.6	7539	7492	4292	230240	13090	n/a
14	10/25/18	79.9	6945	7124	3856	254520	7352	n/a
15	10/25/18	79.2	6918	7563	5114	261620	8105	n/a
16	10/25/18	52.1	8876	7353	5152	11970	11977	n/a

Please insert additional pages as applicable.

API 47- 095 - 02443-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	10/26/18	11357	11218	72	Marcellus
18	10/27/18	11176	11034	72	Marcellus
19	10/28/18	10980	10812	72	Marcellus
20	10/31/18	10768	10624	72	Marcellus
21	11/1/18	10579	10439	72	Marcellus
22	11/1/18	10400	10218	72	Marcellus
23	11/1/18	10168	9996	72	Marcellus
24	11/1/18	9954	9838	72	Marcellus
25	11/2/18	9792	9645	72	Marcellus
26	11/2/18	9609	9434	72	Marcellus
27	11/3/18	9391	9264	72	Marcellus
28	11/3/18	9227	9041	72	Marcellus
29	11/3/18	8986	8828	72	Marcellus
30	11/3/18	8790	8670	72	Marcellus
31	11/3/18	8612	8452	72	Marcellus
32	11/3/18	8409	8238	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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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	10/26/18	79.7	6766	6659	4465	247500	7707	n/a
18	10/27/18							n/a
19	10/28/18	75.9	7491	7892	5188	250870	19906	n/a
20	10/31/18	79.6	6597	5522	3880	245180	7530	n/a
21	11/1/18	80.1	6969	7145	3674	246020	7402	n/a
22	11/1/18	80.3	6495	6585	4117	251240	7523	n/a
23	11/1/18	80	6616	6369	3895	251380	7165	n/a
24	11/1/18	73.3	7740	7446	4522	251480	13298	n/a
25	11/2/18	81.8	6876	7604	4071	251500	6072	n/a
26	11/2/18	82.8	6624	7251	3837	254420	6137	n/a
27	11/3/18	81.5	7069	7540	4297	252730	6460	n/a
28	11/3/18	79.8	6595	7159	3941	254490	6993	n/a
29	11/3/18	79.6	6363	6974	3859	257320	6895	n/a
30	11/3/18	82.8	6571	7132	3699	254820	6208	n/a
31	11/3/18	82	6501	7101	4024	253200	6306	n/a
32	11/3/18	81.6	6490	6847	3890	252420	5697	n/a

Please insert additional pages as applicable.

API 47- 095 - 02443-00

Farm name Jay-Bee Oil & Gas, Inc.

Well number Curly 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	11/4/18	8194	8049	72	Marcellus
34	11/4/18	8008	7861	72	Marcellus
35	11/4/18	7820	7652	72	Marcellus
36	11/4/18	7605	7476	72	Marcellus
37	11/4/18	7422	7240	72	Marcellus
38	11/4/18	7177	6918	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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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	11/4/18	81.8	6508	7219	4790	255710	5883	n/a
34	11/4/18	79.8	6387	6670	4345	253290	6460	n/a
35	11/4/18	80.1	6327	6927	4081	255780	7150	n/a
36	11/4/18	79.6	6314	6975	4176	252520	7103	n/a
37	11/4/18	82.4	6429	7346	4388	257350	6790	n/a
38	11/4/18	82.7	6518	6944	3613	251910	6824	n/a

Please insert additional pages as applicable.

API 47- 095 - 02443-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 2

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6,601' TVD	14,603' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2420 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 7700 mcfpd Oil 308 bpd NGL n/a bpd Water 770 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)
Hamilton	0	5614	0		
Upper Marcellus	5614	6447			
Parcell Lime	6447	6471			
Shale	6471	6480			
Lower Marcellus	6480	6505			
Onondaga	6505	6555			

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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 Frac Tech
Address 600 Town Center Boulevard, Suite 120 City Cannonsburg State PA Zip 15313

Please insert additional pages as applicable.

Completed by Kim Swiger Telephone 304-628-3111
Signature Kim Swiger Title Permitting Agent Date 5/19/2020

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: 47-095-02443 County: Tyler
District: Ellsworth Well No: Curly 2
Farm Name: Jay-Bee Oil & Gas, Inc.
Discharge Date/s From:(MMDDYY) _____ To: (MMDDYY) _____
Discharge Times. From: n/a To: n/a
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) _____

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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? n/a 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/a 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/a If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) n/a 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/a If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
7. n/a is the category of your pit. Use the Appropriate section.
8. Comments on Pit condition: n/a

Name of Principal Exec. Officer: Randy Broda

Title of Officer: President

Date Completed: 5/19/2020

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.

Signature of a Principal Exec. Officer or Authorized agent.

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- 095 - 02443 _____;

Acreage _____;

Watershed Middle Island Creek _____;

District Ellsworth _____;

County Tyler _____;

Public Road Access Klondike Road _____;

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

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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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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/17/2018
Job End Date:	11/4/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02443-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Curly 2
Latitude:	39.46409900
Longitude:	-80.89623300
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,900
Total Base Water Volume (gal):	12,665,814
Total Base Non Water Volume:	76,831

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	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	91.31427	
Other Chemical (s)	Listed Above	See Trade Name (s) List	Water	7732-18-5	85.00000	0.37163	

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			Water	7732-18-5	55.00000	0.01388	
			Water	7732-18-5	50.00000	0.03656	
			Water	7732-18-5	55.00000	0.01403	
100 Mesh Sand	FTSI	Proppant		Listed Below			
40/70 White	FTSI	Proppant		Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below			
HVG-1 4.0	FTSI	Water gelling agent		Listed Below			
FRW-1450	FTSI	Friction Reducer		Listed Below			
30/50 White	FTSI	Proppant		Listed Below			
10.1%-15.0% HCL	FTSI	Acid		Listed Below			

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20/40 White	FTSI	Proppant		Listed Below				
SPB-1	FTSI	Breaker		Listed Below				
CS-1000 SI	FTSI	Scale Inhibitor		Listed Below				
ICI-3240	FTSI	Biocide		Listed Below				

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Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.

			Silica, Quartz	14808-60-7	100.00000	3.72884	
			Silica, Quartz	14808-60-7	100.00000	2.46975	
			Silica, Quartz	14808-60-7	100.00000	1.23338	
			Silica, Quartz	14808-60-7	100.00000	0.65116	
			Hydrogen Chloride	7647-01-0	15.00000	0.06558	
			Cationic Polyacrylamide	9003-05-8	30.00000	0.02193	
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000	0.02193	
			Guar gum	9000-30-0	55.00000	0.01806	
			Raffinates, Sorption Process	64741-85-1	55.00000	0.01806	
			Petroleum Distillate	64742-47-8	55.00000	0.01806	
			Phosphonic Acid, {Nitrioltris (methylene)} Tris	6419-19-8	35.00000	0.00884	
			Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00776	

	Dazomet (Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione.	533-74-4	24.00000	0.00612	
	Sodium Hydroxide	1310-73-2	23.00000	0.00587	
	Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00366	
	Suspending Agent	1302-78-9	5.00000	0.00168	
	Quartz	14808-60-7	4.00000	0.00131	
	Phosphonic Acid, ((Dimethylamino) Methylene) Bis -	29712-30-9	5.00000	0.00126	
	Methanol	67-56-1	90.00000	0.00069	
	Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00066	
	Phosphorous Acid	10294-56-1	2.00000	0.00050	
	Orthophosphoric acid	7664-38-2	0.75000	0.00019	
	Sodium Metaborate	7775-19-1	1.40000	0.00011	
	Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00008	
	Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00008	
	Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00008	
	Propargyl Alcohol	107-19-7	5.00000	0.00004	
	N-olefins	Proprietary	3.00000	0.00002	
	Hydrochloric acid	7647-01-0	0.00500	0.00000	

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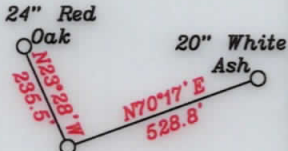
* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 *** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line
 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)

Top Hole 6,253'

Bottom Hole 3,763'

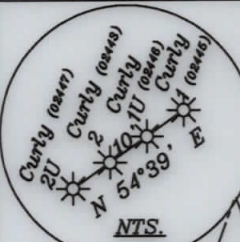
LATITUDE 39-30-00 N (TH)
LATITUDE 39-27-30 N (BH)

References



Location Curly 2

NTS



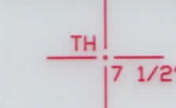
--- 500' from Bore Path
--- Final Lease Line

Jay-Bee Oil & Gas, Inc.
TM 26/46
286.039 Ac.

Notes:

- All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.
- Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
- No water wells were found within 250' of the location. No perennial stream is located within 100' of LOD. No producing trout stream located within 300' of LOD.
- A cabin bears N30°13'W at a distance of 539' from the center of the pad.

- A- Coffi TM 26-45 52.9 Ac.
- B- Coffi TM 26/44 39 Ac.
- C- Reed et al TM 26/39 8.17 Ac.
- D- Stevens, Reed, Hardesty, & Holmes TM 29/6 31.5 Ac.
- E- WVDNR TM 29/7 7.5 Ac.
- F- Reed TM 26/42 13 Ac.
- G- Westbrook TM 26/19.4 9.36 Ac.
- H- Jay Bee Oil & Gas TM 26/19.9 0.796 Ac.
- I- Jay Bee Oil & Gas TM 26/46.24 2.369 Ac.
- J- Walton TM 26/46.11 6.43 Ac.
- K- Kanz TM 26/46.4 8.1 Ac.
- L- Patera TM 26/46.15 3.722 Ac.
- M- Ison TM 26/46.10 4.98 Ac.
- N- Patera TM 26/46.7 5.58 Ac.
- O- Jay-Bee Production Co. TM 26/46.16 5.094 Ac.
- P- Shrader TM 26/46.1 5.58 Ac.
- Q- Peek TM 26/46.8 2.079 Ac.
- R- Peek TM 26/46.20 0.652 Ac.
- S- Peek TM 26/46.19 4.59 Ac.
- T- Kanz TM 26/46.3 5.4 Ac.
- U- Holliday TM 26/46.12 3.238 Ac.
- V- Coffi TM 26/46.25 40.25 Ac.
- W- WVDNR TM 30/3 11.06 Ac.
- Y- Coleman TM 26/46.25 1.39 Ac.
- Z- Peek TM 26/46.21 0.22 Ac.



AA- Marich TM 26/26.1 57.22 Ac.
BB- WVDNR TM 30/2 6 Ac.

NUMBER	DIRECTION	DISTANCE
L1	S89°47'W	791'
L2	S62°55'W	820'
L3	S00°15'W	414'

— As Drilled
— Permitted

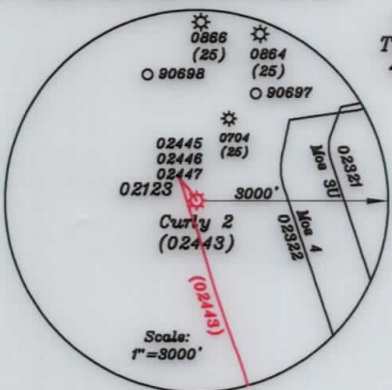
Top Hole	NAD 83 (Meters)-4368257.0 N, 508846.9 E
Landing Point	NAD 83 (Meters)-4368153.0 N, 508836.3 E
Bottom Hole	NAD 83 (Meters)-4365957.7 N, 509599.2 E
Top Hole	NAD 83 (Meters)-4368256.7 N, 508846.7 E
Landing Point	NAD 83 (Meters)-4368130.6 N, 508848.2 E
Bottom Hole	NAD 83 (Meters)-4365948.2 N, 509609.4 E

NORTH

LONGITUDE 80-52-30 W

Top Hole 13,170'

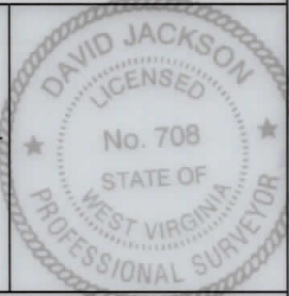
LONGITUDE 80-52-30 W



(+) 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

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 Jackson
R.P.E. _____ P.S. 708



STATE OF WEST VIRGINIA
Division of Environmental Protection
OFFICE OF OIL AND GAS

DATE October 02, 2019
OPERATOR'S WELL NO. Curly 2
API WELL NO. _____

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

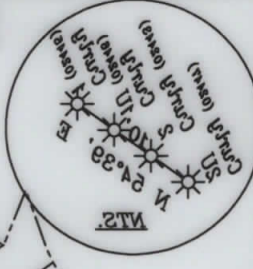
LOCATION: ELEVATION 1,124.55' WATER SHED Middle Island Creek
DISTRICT Ellsworth COUNTY Tyler
QUADRANGLE Middlebourne 7 1/2'

SURFACE OWNER Jay-Bee Oil & Gas Inc. ACREAGE 286.039 Ac.
OIL & GAS ROYALTY OWNER Ridgetop Capital LP, & Ridgetop Capital II, LP PLEASE ACREAGE 286.039 Ac.
LEASE NO. RT2

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,601' TMD = 14,603'
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

Location
Curly S
24" Red
50" White
N70°17' E
528.8'
N52°58' W
528.2'



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

Top Hole 6,253'
Bottom Hole 3,763'

--- 500' from Bore Path
--- Final Lease Line

Notes:
1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well logs & 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 location. No potential streams are located within 100' of LOD. No producing front stream located within 300' of LOD.
4. A center bears N30°12' W at a distance of 259' from the center of the pad.

Bottom Hole 2,241'
Job Hole 13,110'

AA- Marlich TM 28/28.1 57.22 Ac.
BB- WVDNR TM 30/5 6 Ac.

NUMBER	DIRECTION	DISTANCE
L1	S28°47' W	791'
L2	S23°55' W	830'
L3	S00°15' W	414'

--- As Drilled
--- Permitted

Bottom Hole	Top Hole
NAD 83 (Meters)-436294.8 N 508609.4 E	NAD 83 (Meters)-436294.8 N 508609.4 E
NAD 83 (Meters)-436813.0 N 508848.2 E	NAD 83 (Meters)-436813.0 N 508848.2 E
NAD 83 (Meters)-436527.7 N 508299.2 E	NAD 83 (Meters)-436527.7 N 508299.2 E
NAD 83 (Meters)-436815.0 N 508836.3 E	NAD 83 (Meters)-436815.0 N 508836.3 E
NAD 83 (Meters)-436827.0 N 508846.9 E	NAD 83 (Meters)-436827.0 N 508846.9 E



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 Jackson
P.S. 708 R.P.E.

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

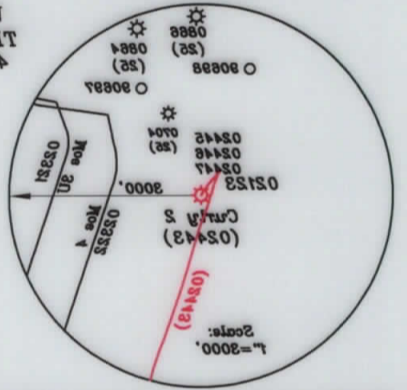
STATE OF WEST VIRGINIA
Division of Environmental Protection
OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,124.55' WATER SHED Middle Island Creek
DISTRICT Ellsworth
QUADRANGLE Middlebourne 7 1/2'
SURFACE OWNER Jay-Bee Oil & Gas Inc. ACREAGE 286.039 Ac.
OIL & GAS ROYALTY OWNER Ridgetop Capital LP & Ridgetop Capital II, L.P. LEASE ACREAGE 286.039 Ac.

PROPOSED WORK: DRILL CONVERT _____
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW _____
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

TARGET FORMATION Marcellus
PLUG AND ABANDON CLEAN OUT AND REPLUG _____
DESIGNATED AGENT Randy Broda
WELL OPERATOR Jay-Bee Oil & Gas, Inc.
ESTIMATED DEPTH TVD = 6,601', TMD = 14,603'

DATE October 02, 2019
OPERATOR'S WELL NO. Curly S
API WELL NO. _____
STATE COUNTY _____
PERMIT 02443



- A- Coff TM 28-45 52.9 Ac.
- B- Coff TM 28/44 39 Ac.
- C- Reed et al TM 28/39 8.17 Ac.
- D- Stevens, Reed, Hardesty, & Holmes TM 28/31.5 Ac.
- E- WVDNR TM 29/7.5 Ac.
- F- Reed TM 28/42 13 Ac.
- G- Westbrook TM 28/19.4 9.36 Ac.
- H- Jay Bee Oil & Gas TM 28/19.9 0.796 Ac.
- I- Jay Bee Oil & Gas TM 28/16.24 2.369 Ac.
- J- Walton TM 28/46.11 6.43 Ac.
- K- Karns TM 28/46.4 8.1 Ac.
- L- Patena TM 28/46.15 3.722 Ac.
- M- Ison TM 28/46.10 4.98 Ac.
- N- Patena TM 28/46.7 5.58 Ac.
- O- Jay-Bee Production Co. TM 28/46.16 5.094 Ac.
- P- Shrader TM 28/46.1 5.58 Ac.
- Q- Peck TM 28/46.8 2.079 Ac.
- R- Peck TM 28/46.20 0.652 Ac.
- S- Peck TM 28/46.19 4.59 Ac.
- T- Karns TM 28/46.3 5.4 Ac.
- U- Holliday TM 28/46.12 3.238 Ac.
- V- Coff TM 28/46.25 40.25 Ac.
- W- WVDNR TM 30/3 11.06 Ac.
- X- Coleman TM 28/46.25 1.39 Ac.
- Y- Peck TM 28/46.21 0.22 Ac.
- Z- Peck TM 28/46.21 0.22 Ac.

LONGITUDE 80-25-30 W

LONGITUDE 80-25-30 W

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