

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

API 47-095-02445-00 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 1
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 4368260.7 Easting 508851.8
Landing Point of Curve Northing 4368217.9 Easting 509070.2
Bottom Hole Northing 4366258.8 Easting 509753.5

Elevation (ft) 1,124.8' 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)

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Date permit issued 2/6/2018 Date drilling commenced 4/3/2018 Date drilling ceased 4/20/2018
Date completion activities began 10/18/2018 Date completion activities ceased 11/1/2018
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:
[Signature]
6/18/2020

API 47-095 - 02445-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 1

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"	5361' <i>Loggs</i>	New	H40-48#	83'-495'	Y
Coal							
Intermediate 1	11"	8" 5/8"	2361'	New	J55-24#	85'-2189'	Y
Intermediate 2							
Intermediate 3							
Production	7" 7/8"	5" 1/2"	14025'	New	P110-20#		Y
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	497	15.6	1.196	595	CTS	8
Coal							
Intermediate 1	Class A	717	15.6	1.188	852	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	2006	14.5	1.17	2356	300' FS	8
Tubing							

Drillers TD (ft) 14,052' Loggers TD (ft) 14,052'
 Deepest formation penetrated Marcellus Plug back to (ft) n/a

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Kick off depth (ft) 5,900'

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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 - 02445-00

Farm name Jay-Bee Oil & Gas, Inc.

Well number Curly 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/18/18	13952	13892	97	Marcellus
2	10/18/18	13852	13662	72	Marcellus
3	10/19/18	13616	13446	72	Marcellus
4	10/19/18	13406	13244	72	Marcellus
5	10/19/18	13208	13064	72	Marcellus
6	10/20/18	13022	12850	72	Marcellus
7	10/20/18	12800	12662	72	Marcellus
8	10/21/18	12610	12468	72	Marcellus
9	10/21/18	12432	12258	72	Marcellus
10	10/21/18	12219	12082	72	Marcellus
11	10/22/18	12024	11888	72	Marcellus
12	10/23/18	11844	11678	72	Marcellus
13	10/23/18	11640	11483	72	Marcellus
14	10/23/18	11446	11246	72	Marcellus
15	10/23/18	11238	11080	72	Marcellus
16	10/23/18	11034	10888	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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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)
1	10/17/18	71.1	7834	n/a	3658	254260	8424	n/a
2	10/18/18	80.1	7210	n/a	5158	252540	7906	n/a
3	10/19/18	84.6	7572	n/a	5137	254540	8247	n/a
4	10/19/18	79.8	6895	6157	3774	250370	7361	n/a
5	10/19/18	80	6882	6562	4091	252060	7121	n/a
6	10/20/18	80.4	6968	6270	4032	252580	7170	n/a
7	10/21/18	77.8	7068	6057	4020	249440	7669	n/a
8	10/21/18	79.8	7051	6311	3792	254020	7200	n/a
9	10/22/18	80	6900	6888	3911	247900	6888	n/a
10								n/a
11	10/24/18	80.1	6943	6810	4267	252160	7027	n/a
12	10/25/18	80	6835	7397	4128	247860	7022	n/a
13	10/25/18	80.3	6779	5838	4573	251020	6973	n/a
14	10/25/18	80.5	6899	6242	4266	253380	7359	n/a
15	10/25/18	80	6794	6142	3740	251720	7063	n/a
16	10/25/18	80.3	6902	7127	4034	256160	6995	n/a

Please insert additional pages as applicable.

API 47- 095 - 02445-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	10/24/18	10851	10666	72	Marcellus
18	10/24/18	10614	10478	72	Marcellus
19	10/24/18	10432	10284	72	Marcellus
20	10/26/18	10250	10092	72	Marcellus
21	10/26/18	10052	9890	72	Marcellus
22	10/26/18	9853	9696	72	Marcellus
23	10/27/18	9652	9495	72	Marcellus
24	10/27/18	9460	9322	72	Marcellus
25	10/27/18	9272	9088	72	Marcellus
26	10/28/18	9055	8918	72	Marcellus
27	10/29/18	8871	8718	72	Marcellus
28	10/29/18	8687	8510	72	Marcellus
29	10/30/18	8474	8333	72	Marcellus
30	10/30/18	8287	8120	72	Marcellus
31	10/30/18	8088	7938	72	Marcellus
32	10/30/18	7890	7724	72	Marcellus

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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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	10/24/18	79.8	6704	6602	3875	251400	6867	n/a
18	10/24/18	80.7	6755	6149	4338	253620	7002	n/a
19	10/24/18	80.1	6758	6690	4663	256430	7140	n/a
20	10/26/18	80	6939	8338	4926	256210	7836	n/a
21	10/26/18	79.5	6626	6855	4159	258740	7078	n/a
22	10/26/18	79.9	6527	6667	4360	251760	7038	n/a
23	10/27/18	79.8	6549	5946	4416	254020	7127	n/a
24	10/27/18	79.7	6553	6112	3856	252900	7326	n/a
25	10/27/18	79.8	6411	7054	4004	250555	7054	n/a
26	10/28/18	79.8	6664	6830	4233	261800	6830	n/a
27	10/29/18	79.8	6609	6240	4309	246360	6874	n/a
28	10/29/18	80	6495	6901	4987	255220	7032	n/a
29	10/30/18	79.8	6361	7007	4775	261000	7046	n/a
30	10/30/18	79.7	6349	6895	4055	253580	7111	n/a
31	10/30/18	80.2	6365	7284	4653	253840	6878	n/a
32	10/30/18	80	6299	6888	4352	262500	6897	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	10/31/18	7676	7522	72	Marcellus
34	10/31/18	7485	7336	72	Marcellus
35	10/31/18	7297	7157	72	Marcellus
36	11/1/18	7118	6958	72	Marcellus

Please insert additional pages as applicable.

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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	10/31/18	79.8	6451	9759	4004	250700	7350	n/a
34	10/31/18	79.8	6331	6615	4240	253560	7163	n/a
35	10/31/18	79.5	6276	6639	4674	245210	6846	n/a
36	11/1/18	79.6	6239	5240	3613	250880	7201	n/a

Please insert additional pages as applicable.

API 47- 095 - 02445-00 Farm name Jay-Bee Oil & Gas, Inc. Well number Curly 1

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6,600'</u>	<u>TVD</u>	<u>14,056'</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 2300 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 7100 mcfpd Oil 284 bpd NGL n/a bpd Water 710 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			

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 6000 Town Center Boulevard, Suite 120 City Cannonsburg State PA Zip 15317

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: 47-095-02445 County: Tyler
District: Ellsworth Well No: Curly 1
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)

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

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WV Department of
Environmental Protection

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 - 02445 _____;

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 _____

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/18/2018
Job End Date:	11/1/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02445-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Curly 1
Latitude:	39.46387800
Longitude:	-80.89710000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,900
Total Base Water Volume (gal):	10,906,854
Total Base Non Water Volume:	54,620

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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	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	90.46173	
Other Chemical (s)	Listed Above	See Trade Name (s) List	Water	7732-18-5	55.00000	0.01415	

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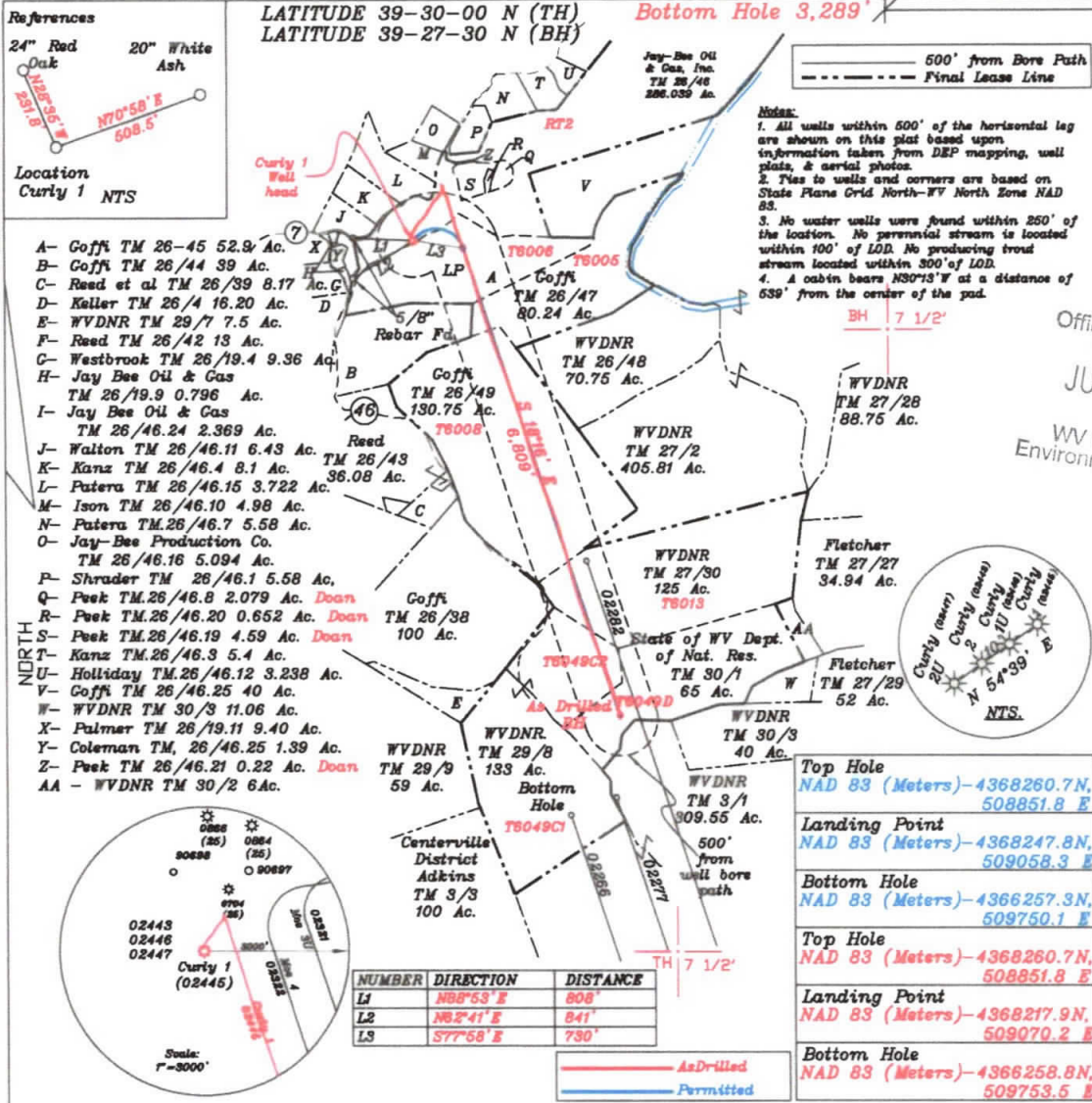
			Water	7732-18-5	85.00000	0.29127	
			Water	7732-18-5	55.00000	0.01390	
			Water	7732-18-5	50.00000	0.03287	
HVG-1 4.0	FTSI	Water gelling agent		Listed Below			
SPB-1	FTSI	Breaker		Listed Below			
20/40 White	FTSI	Proppant		Listed Below			
10.1%-15.0% HCL	FTSI	Acid		Listed Below			
40/70 White	FTSI	Proppant		Listed Below			
ICI-3240	FTSI	Biocide		Listed Below			
100 Mesh Sand	FTSI	Proppant		Listed Below			

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30/50 White	FTSI	Proppant		Listed Below				
CS-1000 SI	FTSI	Scale Inhibitor		Listed Below				
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below				
FRW-1450	FTSI	Friction Reducer		Listed Below				

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

			Silica, Quartz	14808-60-7	100.00000		4.15865	
			Silica, Quartz	14808-60-7	100.00000		2.77279	
			Silica, Quartz	14808-60-7	100.00000		1.38480	
			Silica, Quartz	14808-60-7	100.00000		0.72797	
			Hydrogen Chloride	7647-01-0	15.00000		0.05140	
			Cationic Polyacrylamide	9003-05-8	30.00000		0.01972	
			Distillates (petroleum), hydrotreated light	64742-47-8	30.00000		0.01972	
			Petroleum Distillate	64742-47-8	55.00000		0.01508	
			Guar gum	9000-30-0	55.00000		0.01508	
			Raffinates, Sorption Process	64741-85-1	55.00000		0.01508	
			Phosphonic Acid, {Nitrilotris (methylene)} Tris	6419-19-8	35.00000		0.00885	
			Sodium Perborate Tetrahydrate	10486-00-7	98.00000		0.00649	



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

FILE NO. 4
 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 G. Dalton
 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 1
 API WELL NO. 47 095 02445

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF 'GAS') PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1,124.8' 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 LEASE ACRES 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 = 6,600' TMD = 14,056'
 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

LONGITUDE 80-52-30 W Bottom Hole 4,555'
 LONGITUDE 80-52-30 N Bottom Hole 6,237'

References
 24" Red Oak
 20" White Ash

Location
 Curly 1 NTS

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

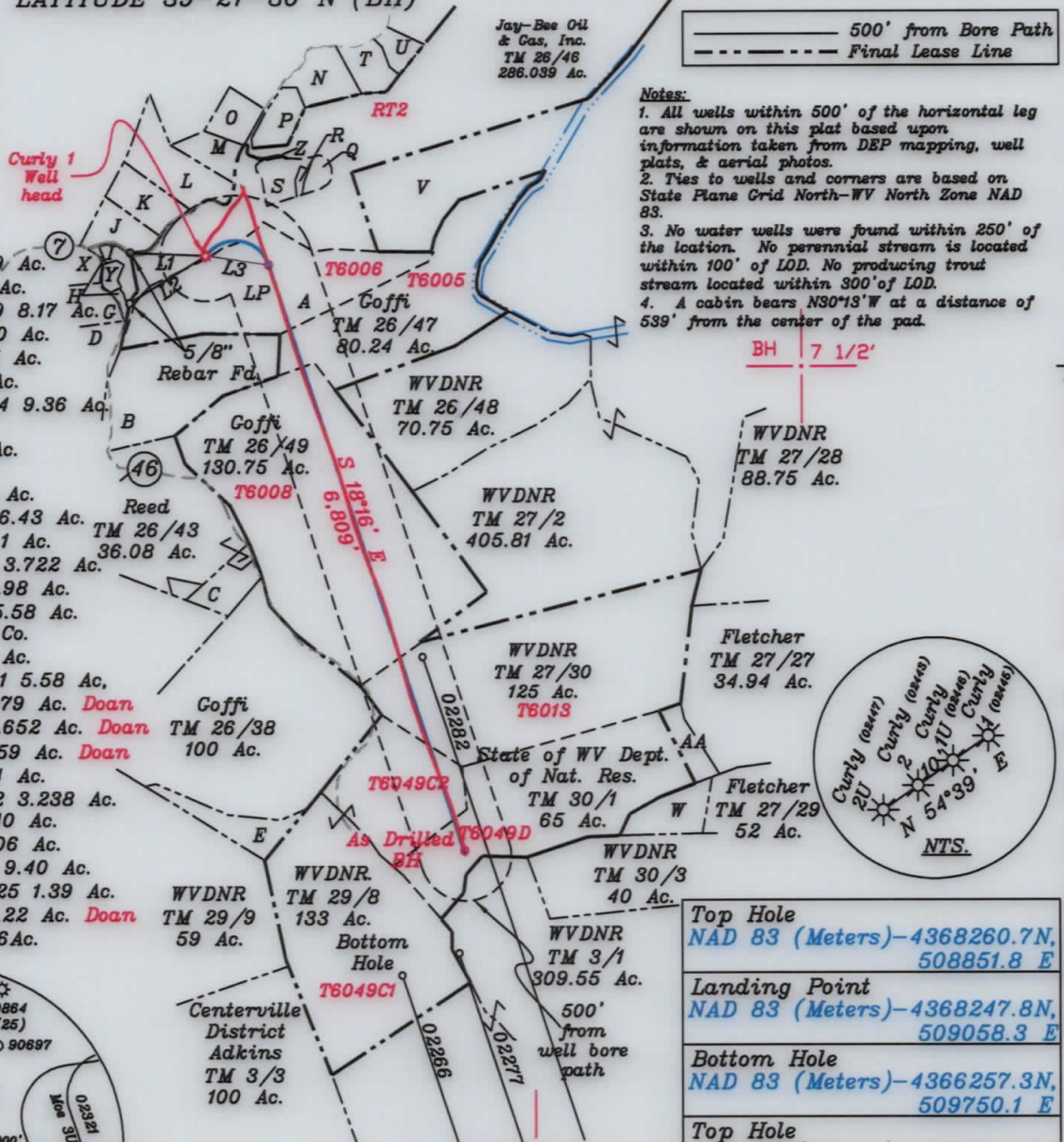
Jay-Bee Oil & Gas, Inc.
 TM 26/46
 286.039 Ac.

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 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 location. No perennial stream is located within 100' of LOD. No producing trout stream located within 300' of LOD.
 4. A cabin bears N30°13'W at a distance of 539' from the center of the pad.

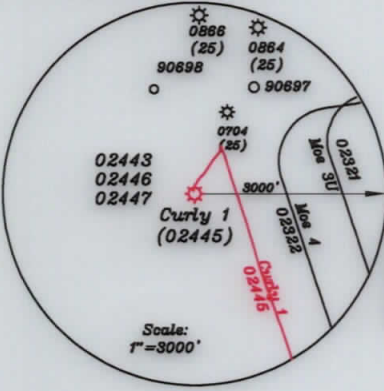
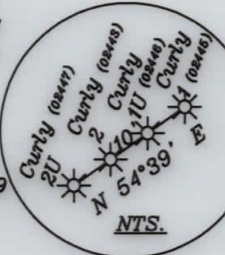
- A- Coffi TM 26-45 52.9 Ac.
- B- Coffi TM 26/44 39 Ac.
- C- Reed et al TM 26/39 8.17 Ac.
- D- Keller TM 26/4 16.20 Ac.
- E- WVDNR TM 29/7 7.5 Ac.
- F- Reed TM 26/42 13 Ac.
- G- Westbrook TM 26/19.4 9.36 Ac.
- H- Jay Bee Oil & Gas TM 26/19.9 0.796 Ac.
- I- Jay Bee Oil & Gas TM 26/46.24 2.369 Ac.
- J- 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. Doan
- R- Peek TM 26/46.20 0.652 Ac. Doan
- S- Peek TM 26/46.19 4.59 Ac. Doan
- 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 Ac.
- W- WVDNR TM 30/3 11.06 Ac.
- X- Palmer TM 26/19.11 9.40 Ac.
- Y- Coleman TM 26/46.25 1.39 Ac.
- Z- Peek TM 26/46.21 0.22 Ac. Doan
- AA - WVDNR TM 30/2 6Ac.

NORTH



BH 7 1/2'

TH 7 1/2'



NUMBER	DIRECTION	DISTANCE
L1	N88°53'E	808'
L2	N62°41'E	841'
L3	S77°58'E	730'

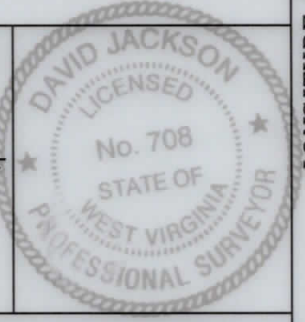
Top Hole	NAD 83 (Meters)-4368260.7N, 508851.8 E
Landing Point	NAD 83 (Meters)-4368247.8N, 509058.3 E
Bottom Hole	NAD 83 (Meters)-4366257.3N, 509750.1 E
Top Hole	NAD 83 (Meters)-4368260.7N, 508851.8 E
Landing Point	NAD 83 (Meters)-4368217.9N, 509070.2 E
Bottom Hole	NAD 83 (Meters)-4366258.8N, 509753.5 E

(+) 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 L. 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 1
 API WELL NO. _____

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

LOCATION: ELEVATION 1,124.8' 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

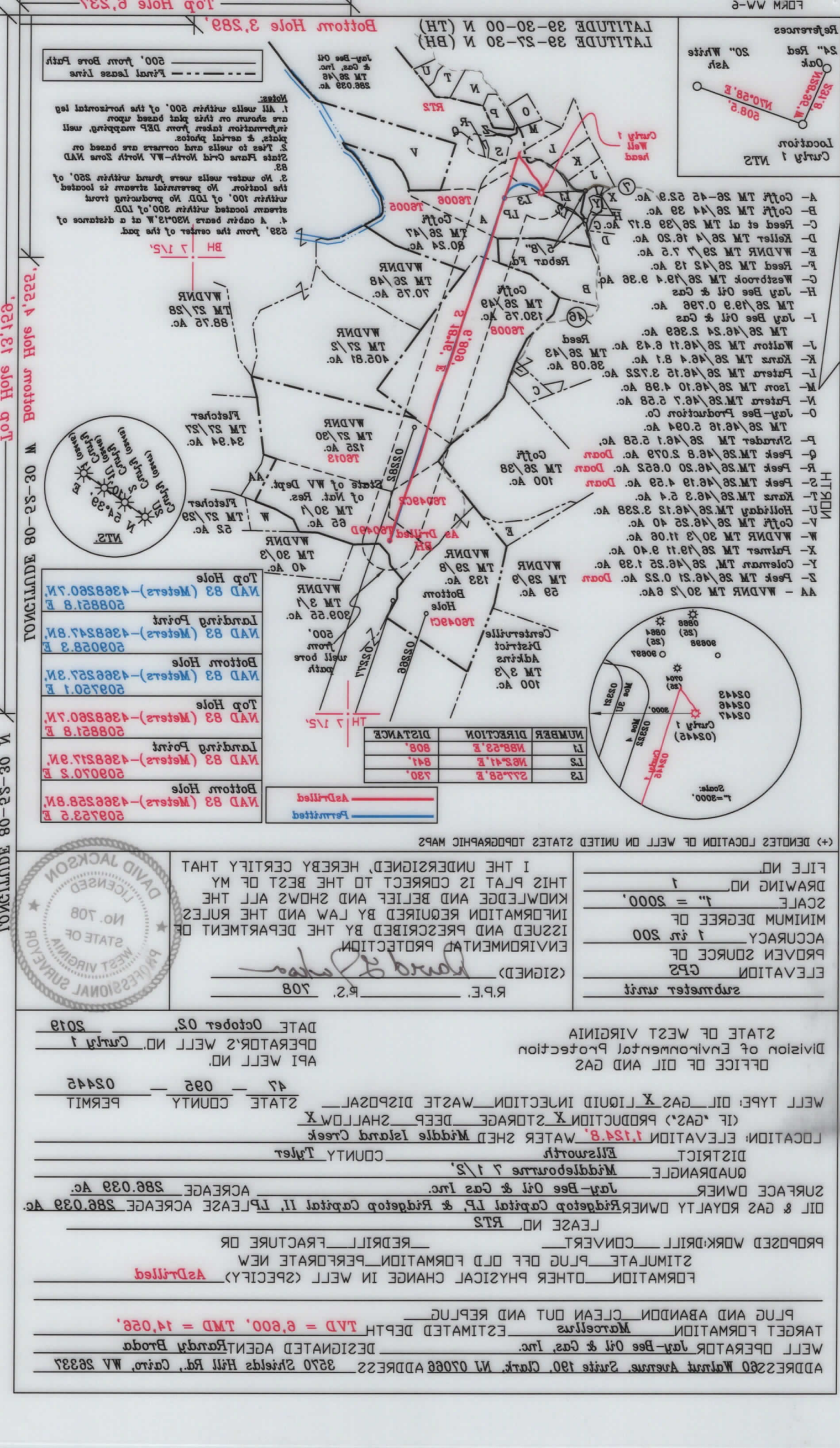
PROPOSED WORK: DRILL _____ CONVERT _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,600' TMD = 14,056'
 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

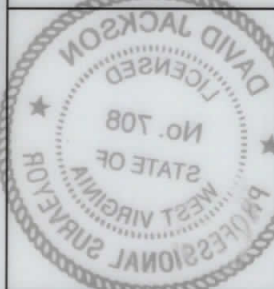
LONGITUDE 80-52-30 W Bottom Hole 4,555'

Top Hole 13,159'

LONGITUDE 80-52-30 N



LONGITUDE 80-28-30 W Bottom Hole 4'222.2' Bottom Hole 3'289.2' Top Hole 13'128.0'



I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAN 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.

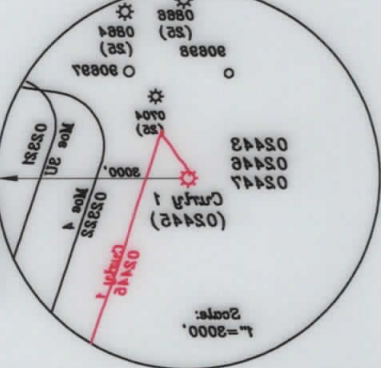
(SIGNED) David Jackson
R.P.E. No. 708

FILE NO.	
DRAWING NO.	1
SCALE	1" = 2000'
MINIMUM DEGREE OF ACCURACY	1 in 500
PROVEN SOURCE OF ELEVATION	GPS
submeter unit	

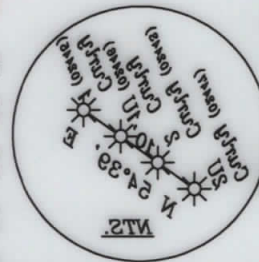
ADDRESS: 260 Walnut Avenue, Suite 190, Clark, WV 26337
 DESIGNATED AGENT: Randy Broda
 TARGET FORMATION: Marcellus
 ESTIMATED DEPTH: TVD = 6,600', TMD = 14,056'
 PROPOSED WORK: DRILL CONVERT REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

SURFACE OWNER: Jay-Bee Oil & Gas Inc.
 QUADRANGLE: Middlebourne 7 1/2'
 DISTRICT: Ellsworth
 LOCATION: ELEVATION 1,124.8' WATER SHED Middle Island Creek
 (IF GAS) PRODUCTION X STORAGE DEEP SHALLOW X
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 STATE COUNTY PERMIT
 47 - 095 - 02445
 DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS STATE OF WEST VIRGINIA
 DATE: October 02, 2019
 OPERATOR'S WELL NO.: Curly 1
 API WELL NO.:

NUMBER	DIRECTION	DISTANCE
L1	N88°23' E	808'
L2	N82°41' E	841'
L3	S77°58' E	730'



Bottom Hole	NAD 83 (Meters) - 436252.8 M.	509750.1 E
Top Hole	NAD 83 (Meters) - 438260.7 M.	509750.1 E
Bottom Hole	NAD 83 (Meters) - 436257.3 M.	509750.1 E
Landing Point	NAD 83 (Meters) - 436247.8 M.	509070.2 E
Top Hole	NAD 83 (Meters) - 438260.7 M.	509750.1 E
Bottom Hole	NAD 83 (Meters) - 436258.8 M.	509753.2 E



- AA - WVDNR TM 30 1/2 6 Ac.
- B - Peck TM 28 1/2 0.22 Ac. Door
- C - Coleman TM 28 1/2 1.39 Ac.
- X - Palmer TM 28 1/2 11.94 Ac.
- W - WVDNR TM 30 3 11.08 Ac.
- V - Coffey TM 28 1/2 4.98 Ac.
- U - Holliday TM 28 1/2 3.238 Ac.
- T - Karris TM 28 1/2 3.24 Ac.
- S - Peck TM 28 1/2 4.29 Ac. Door
- R - Peck TM 28 1/2 20.052 Ac. Door
- Q - Peck TM 28 1/2 2.079 Ac. Door
- P - Shrader TM 28 1/2 1.528 Ac.
- O - Jay-Bee Production Co. TM 28 1/2 5.094 Ac.
- N - Patara TM 28 1/2 7.528 Ac.
- M - Patara TM 28 1/2 10.498 Ac.
- L - Patara TM 28 1/2 3.722 Ac.
- K - Karris TM 28 1/2 4.81 Ac.
- J - Walton TM 28 1/2 11.643 Ac.
- I - Jay Bee Oil & Gas TM 28 1/2 2.389 Ac.
- H - Jay Bee Oil & Gas TM 28 1/2 0.798 Ac.
- G - Westbrook TM 28 1/2 4.938 Ac.
- F - Reed TM 28 1/2 13 Ac.
- E - WVDNR TM 28 1/2 7.5 Ac.
- D - Kellar TM 28 1/2 16.20 Ac.
- C - Reed et al TM 28 1/2 8.17 Ac.
- B - Coffey TM 28 1/2 49 Ac.
- A - Coffey TM 28 1/2 52.9 Ac.

Notes:
 1. All wells within 500' of the horizontal leg are shown on this plan based upon information taken from DEP mapping, well plots & 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 general stream is located within 100' of LOD. No producing trout stream located within 300' of LOD.
 4. A cabin bears N30°12' W at a distance of 229' from the center of the pad.

