

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

API 47 - 095 - 02097 County Tyler District McElroy  
Quad Shirley 7.5' Pad Name RPT5 Field/Pool Name \_\_\_\_\_  
Farm name Jay-Bee Oil & Gas, Inc. Well Number RPT5-2  
Operator (as registered with the OOG) Jay-Bee Oil & Gas, Inc.  
Address 3570 Shields Hill Rd. 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 4,369,711.9 Easting 517,789.5  
Landing Point of Curve Northing 4,369,510.9 Easting 517,718.7  
Bottom Hole Northing 4,367,764.8 Easting 518,038.9

Elevation (ft) 1258' 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)  
EZ-MUD (hydrotreated light petroleum distillate)

Date permit issued 4/23/2013 Date drilling commenced 6/3/2013 Date drilling ceased 8/15/2013  
Date completion activities began 9/10/2013 Date completion activities ceased 4/22/2014  
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 N/A 188.5 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft ~~188.5~~ 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

**APPROVED**

NAME: Jaquelin Thornton  
DATE: 8/11/14

APR 27 2015

Reviewed by: AX 08/03/16  
10/07/2016

APPROVED

DATE: 10/07/2016

DATE:

API 47-095 - 02097 Farm name Jay-Bee Oil & Gas, Inc. Well number RPT5-2

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	17"	16"	30'	New	20/32/24		Yes
Surface	15"	11 3/4"	548'	New	20/23/24	50'	Yes
Coal							
Intermediate 1	11"	8 5/8"	2,395.40'	New	20/17/24	1,500'	Yes
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	13,359'	New	20/24/24		Yes
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	310	15.4	1.25	388	CTS	0
Coal							
Intermediate 1	Class A	655	14.5	1.45	950	CTS	0
Intermediate 2							
Intermediate 3							
Production	Class A	1,690	14.3	1.32	2,230	300' feet from surface	0
Tubing							

Drillers TD (ft) 13,375' Loggers TD (ft) 13,375'  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 8,250'

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 Spiral centralizer every joint from TD back to start of  
 90 degree.  
 90-70 degree every second joint.  
 70 degree - KOP every third joint.  
 KOP - Surface bow centralizer placed every 500'.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS Received

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS APR 27 2015

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

Office of Oil and Gas  
WV Dept. of Environmental Protection

API 47-095 - 02097 Farm name Jay-Bee Oil & Gas, Inc. Well number RPT5-2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	9/10/2014	13176	13336	96	Marcellus
2	9/10/2014	12946	13141	72	Marcellus
3	3/10/2014	12618	12911	72	Marcellus
4	3/11/2014	12383	12583	72	Marcellus
5	3/13/2014	12128	12348	72	Marcellus
6	3/18/2014	11822	12093	72	Marcellus
7	3/21/2014	11592	11787	72	Marcellus
8	3/24/2014	11320	11557	72	Marcellus
9	3/28/2014	11018	11285	72	Marcellus
10	3/29/2014	10788	10983	72	Marcellus
11	4/1/2014	10504	10753	72	Marcellus
12	4/2/2014	10228	10469	72	Marcellus
13	4/4/2014	9942	10193	72	Marcellus
14	4/7/2014	9722	9907	48	Marcellus
15	4/9/2014	9474	9660	48	Marcellus
16	4/10/2014	9200	9439	48	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	9/10/14	66.7	6783	6092	4163	1683	14548	N/A
2	3/11/14	68.9	6626	5762	4605	1789	7628	N/A
3	3/13/14	68.8	6587	6079	4028	1341	8115	N/A
4	3/16/14	71.5	6492	5391	5006	1612	8295	N/A
5	3/18/14	68.7	6583	6122	5083	1834	10057	N/A
6	3/20/14	69.8	6786	6760	4651	1528	8420	N/A
7	3/23/14	68.6	6992	7374	5043	1778	9185	N/A
8	3/27/14	70.4	7124	5674	5239	717	7930	N/A
9	3/30/14	69.5	6821	6270	4261	1675	9599	N/A
10	4/1/14	69.2	6333	5764	5003	1736	7089	N/A
11	4/2/14	69.6	6521	5696	4063	1811	8850	N/A
12	4/5/14	69.5	6381	5380	5271	1682	6822	N/A
13	4/6/14	69.9	6426	5109	4508	1759	7722	N/A
14	4/8/14	69.8	6227	5837	4951	1735	7476	N/A
15	4/9/14	70.1	6435	5810	4503	1580	7808	N/A
16	4/10/14	68.6	6557	5566	5155	1800	8381	N/A

Please insert additional pages as applicable.

received

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<b>rpt 5 pad</b>		
<b>PERMIT #</b>	47-095-02096	
	47-095-02097	
	47-095-02098	
<b>ELEVATION</b>	1258	
<b>FORMATION</b>	<b>TOP</b>	<b>BOTTOM</b>
INJUN	2234	2334
GORDON STRAY	2937	2957
HAMILTON	6497	6671
SHALE	6671	7228
UPPER Marcellus	6830	6862
PARCELL LIME	6862	6884
SHALE	6884	6918
LOWER upper MARCELLUS	6918	

**Received**

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Office of Oil and Gas  
WV Dept. of Environmental Protection

10/07/2016

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/10/2013
Job End Date:	4/22/2014
State:	West Virginia
County:	Tyler
API Number:	47-095-02097-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	RPT5-2
Longitude:	-80.79316400
Latitude:	39.47681600
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,986
Total Base Water Volume (gal):	7,427,280
Total Base Non Water Volume:	



## 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 & Gas, Inc.	Water	Water	7732-18-5	100.00000	94.00506	
100 Mesh	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Crystalline Silica	14808-60-7	99.90000	2.51593	
			Aluminum Oxide	1344-28-1	1.10000	0.02770	
			Titanium Oxide	13463-67-7	0.10000	0.00252	
			Iron Oxide	1309-37-1	0.10000	0.00252	
30/50 Mesh	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Crystalline Silica	14808-60-7	99.90000	2.03973	
			Aluminum Oxide	1344-28-1	1.10000	0.02246	
			Iron Oxide	1309-37-1	0.10000	0.00204	
			Titanium Oxide	13463-67-7	0.10000	0.00204	
20/40 Mesh	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Crystalline Silica	14808-60-7	99.90000	0.70407	
			Aluminum Oxide	1344-28-1	1.10000	0.00775	

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			Iron Oxide	1309-37-1	0.10000	0.00071	
			Titanium Oxide	13463-67-7	0.10000	0.00071	
HCL Acid 22 Baume	Nabors Completion and Production Services	Bulk Acid					
			Water	7732-18-5	87.50000	0.50943	
			Hydrogen Chloride	7641-01-1	18.00000	0.10480	
WFR-3B	Nabors Completion and Production Services	Friction Reducer					
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.02248	
			Mineral Spirits	8052-41-3	10.00000	0.00749	
			Ethoxylated Alcohols	68551-12-2	4.00000	0.00300	
KR-153-SL	Nabors Completion and Production Services	Biocides					
			Polyethylene Glycol	25322-68-3	50.00000	0.01169	
			2,2-Dibromo-3-nitrilo-propionamide	10222-01-2	20.00000	0.00468	
Super Max II	Nabors Completion and Production Services	Surfactant & Foamer					
			Ethylhexanol	104-76-7	40.00000	0.00766	
			Isopropyl Alcohol	67-63-0	30.00000	0.00575	
			Glycol Ethers	111-76-2	7.00000	0.00134	
Super TSC LT	Nabors Completion and Production Services	Paraffin & Scale Additives					
			Water	7732-18-5	60.00000	0.01349	
LSG-100L	Nabors Completion and Production Services	Petroleum Distillates					
			Petroleum Distillates	64742-47-8	60.00000	0.00399	
Acid Inhibitor AL-2	Nabors Completion and Production Services	Acid Corrosion Inhibitors					
			Isopropyl Alcohol	67-63-0	40.00000	0.00047	
			Propargyl Alcohol	107-19-7	40.00000	0.00047	
			Glycol Ethers	111-76-2	40.00000	0.00047	
			Ethoxylated Nonylphenol	68412-54-4	13.00000	0.00015	
			Tar bases	72480-70-7	10.00000	0.00012	
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.							
WFR-3B NON-MSDS	Nabors Completion and Production Services	Friction Reducer					
			Propylene Glycol	57-55-6	25.00000	0.01873	
Super TSC LT NON-MSDS	Nabors Completion and Production Services	Paraffin & Scale Additives					
			proprietary	proprietary	15.00000	0.00337	
			proprietary	proprietary	15.00000	0.00337	

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			proprietary	proprietary	15.00000	0.00337
LSG-100L NON-MSDS	Nabors Completion and Production Services	Gelling Agents	proprietary	proprietary	15.00000	0.00337
			Guar Gum	9000-30-0	50.00000	0.00333
			Surfactant	58439-51-0	2.00000	0.00013
			Suspending Agent	14808-60-7	2.00000	0.00013
Super Max II NON-MSDS	Nabors Completion and Production Services	Surfactant & Foamer	proprietary	proprietary	7.00000	0.00134

\* 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)

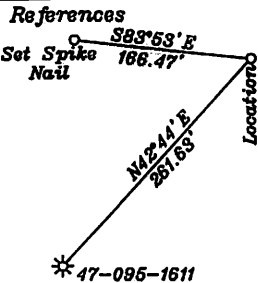
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Office of Oil and Gas  
WV Dept. of Environmental Protection

LATITUDE 39-30-00 N

Bottom Hole 11,638'



**Surface Hole Location**  
 UTM NAD 83(Meters)-4369711.9 N, 517789.5 E  
 Geo. NAD 83-39.476816 N, 80.793164 W  
 State Plane NAD 83-358410.5 N, 1603486.6 E

**Landing Point 1**  
 UTM NAD 83(Meters)-4369510.9 N, 517718.7 E  
 Geo. NAD 83-39.476006 N, 80.793992 W  
 State Plane NAD 83-357754.9 N, 1603243.3 E

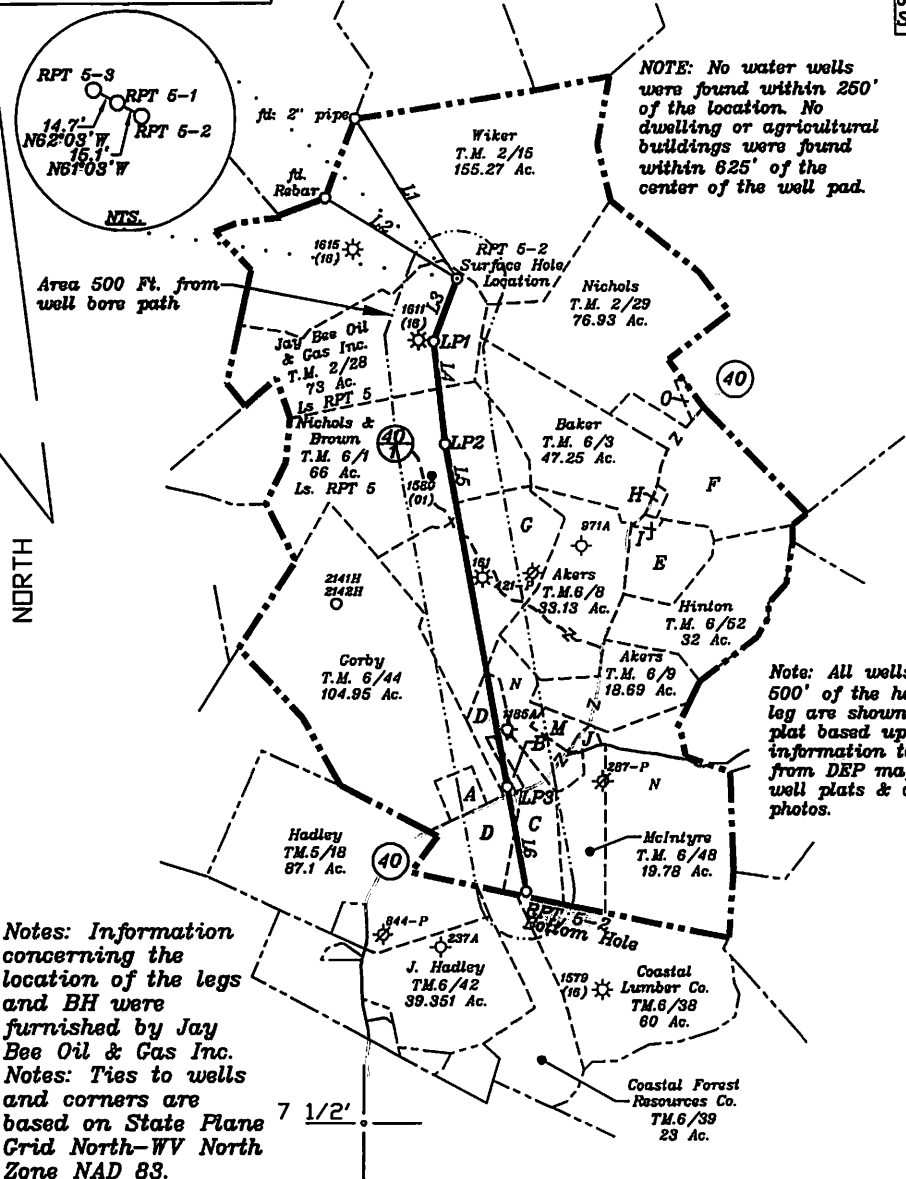
**Landing Point 2**  
 UTM NAD 83(Meters)-4369186.6 N, 517759.8 E  
 Geo. NAD 83-39.472083 N, 80.793522 W  
 State Plane NAD 83-356688.3 N, 1603360.5 E

**Landing Point 3**  
 UTM NAD 83(Meters)-4368097.5 N, 517972.7 E  
 Geo. NAD 83-39.462265 N, 80.791077 W  
 State Plane NAD 83-353102.9 N, 1603999.4 E

**Bottom Hole Location**  
 UTM NAD 83(Meters)-4367764.8 N, 518038.9 E  
 Geo. NAD 83-39.459266 N, 80.790317 W  
 State Plane NAD 83-352007.4 N, 1604198.4 E

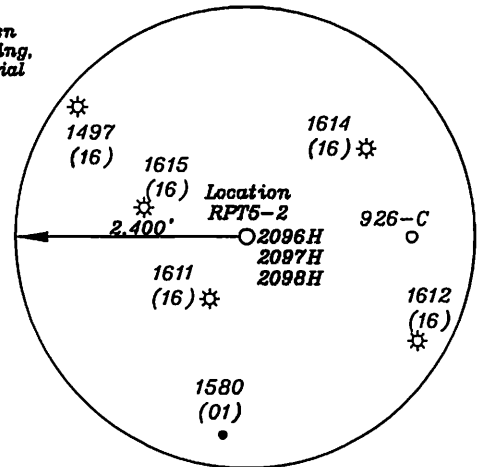
NOTE: No water wells were found within 250' of the location. No dwelling or agricultural buildings were found within 625' of the center of the well pad.

- A-Corby T.M. 6/45 4 Ac.
- B-Corby T.M. 6/46.1 0.92 Ac. Ls. T3104E2
- C-Corby T.M. 6/47 16.73 Ac. Ls. T3104E
- D-Corby T.M. 6/45 18.74 Ac. Ls. T3104E1
- E-Catrell T.M. 6/7 14.62 Ac.
- F-Liller T.M. 6/3.1 15 Ac.
- G-Randall J. Broda, as trustee of Randall J. Broda Family Trust II T.M. 6/2 58.5 Ac. Ls. RPT 4
- H-Cole T.M. 6/5 1 Ac.
- I-Hostuttler T.M. 6/6 0.38 Ac.
- J-Big Run Meth Church T.M. 6/61 2 Ac.
- M-Corby T.M. 6/50 3.16 Ac.
- N-McIntyre T.M. 6/49 25.89 Ac.
- O-Nichols T.M. 6/4 1.25 Ac.



NUMBER	DIRECTION	DISTANCE
L1	S82°24' E	1,970'
L2	S68°17' E	1,617'
L3	S20°22' W	699'
L4	S06°16' E	1,073'
L5	S10°06' E	3,642'
L6	S10°18' E	1,113'

Note: All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats & aerial photos.

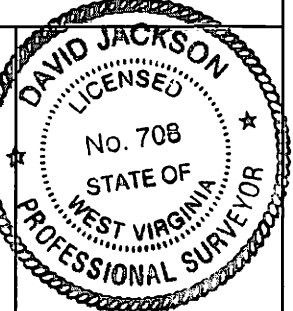


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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. \_\_\_\_\_ L.S. 708



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

DATE April 20, 2015  
 OPERATOR'S WELL NO. RPT 5-2  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL X GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF 'GAS') PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X

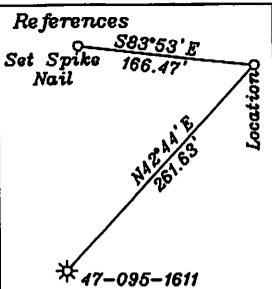
LOCATION: ELEVATION 1,258' WATER SHED Big Run  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Shirley 7 1/2' ACREAGE 73 ac.

SURFACE OWNER Jay Bee Oil & Gas, Inc LEASE ACREAGE ac  
 OIL & GAS ROYALTY OWNER Jay Bee Oil & Gas, Inc.(73Ac.) & (56.5Ac.), Gary S. Nichols(66Ac.), James Ira Corby et al(0.92Ac.), (18.74Ac.) & (16.73Ac.) LEASE NO. RPT 5, RPT 4, T3104E1, T3104E2, & T3104E

PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Marcellus ESTIMATED DEPTH 7,500' + Horizontal leg  
 WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
 ADDRESS 1720 Rt. 22 East Union, NJ 07083 ADDRESS Rt. 1 Box 5 Cairo, WV 26337

10/07/2016



LATITUDE 39-30-00 N

Bottom Hole 11,638'

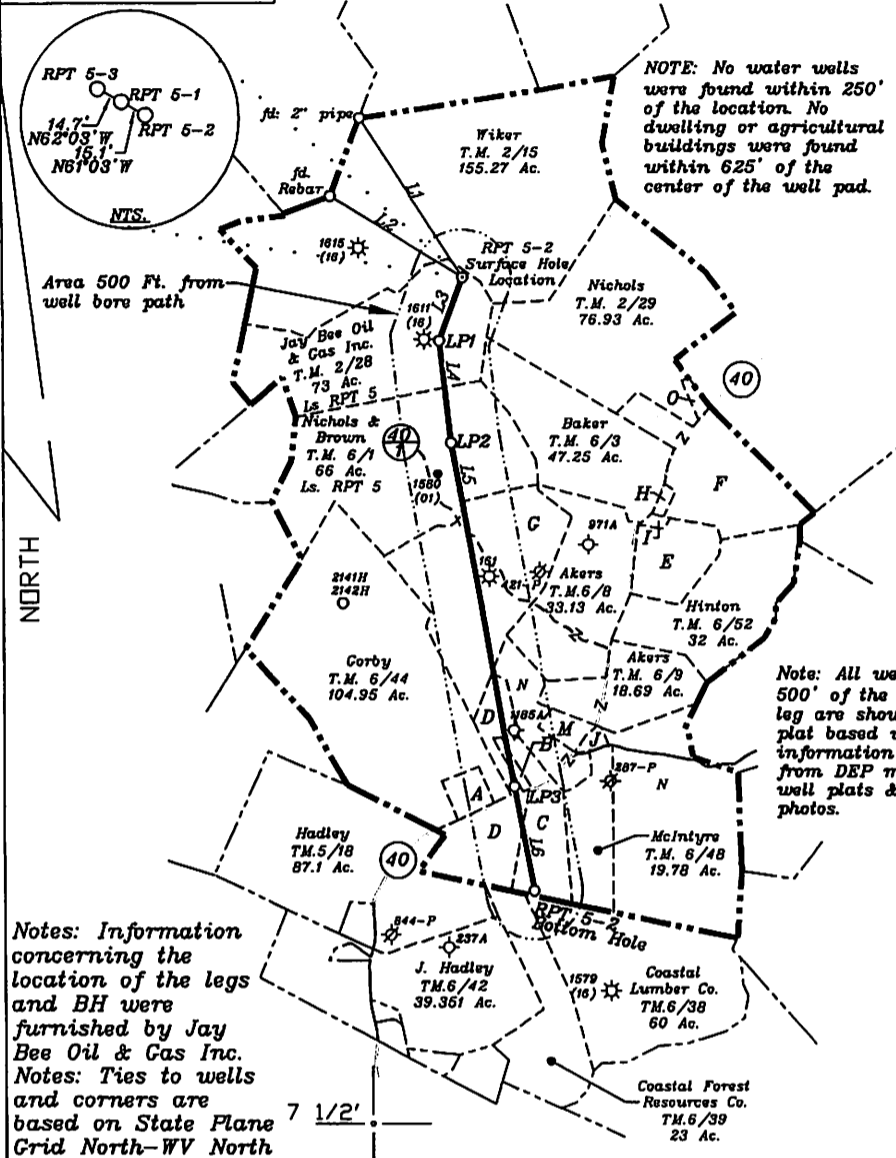
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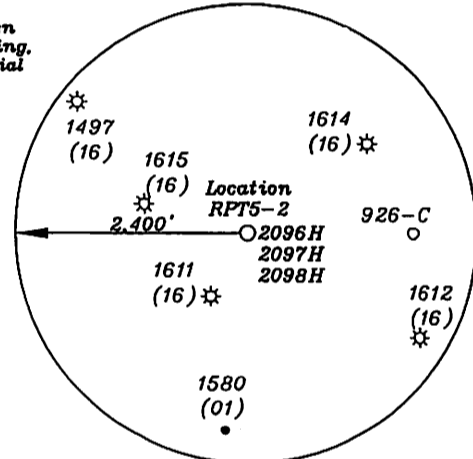
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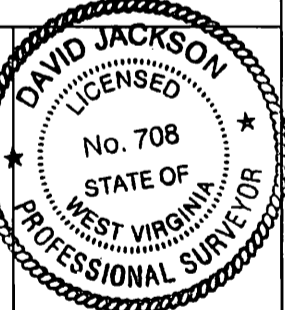
Notes: Information concerning the location of the legs and BH were furnished by Jay Bee Oil & Gas Inc. Notes: Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.

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

FILE NO. \_\_\_\_\_  
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 Division of Environmental Protection  
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 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL \_\_\_\_\_ STATE 47 COUNTY 095 PERMIT 02097  
 (IF 'GAS') PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 1,258' WATER SHED Big Run  
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SURFACE OWNER Jay Bee Oil & Gas, Inc LEASE ACREAGE \_\_\_\_\_ ac  
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 TARGET FORMATION Marcellus ESTIMATED DEPTH 7,500'+ Horizontal leg  
 WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
 ADDRESS 1720 Rt. 22 East Union, NJ 07083 ADDRESS Rt. 1 Box 5 Cairo, WV 26337

Bottom Hole 14,703'  
 Bottom Hole 80-45-00 W BH  
 LONGITUDE 80-47-30 W TH  
 Top Hole 8,466'

VIOLATION NO. 9498

DATE June 7, 2016

FORM VI 27  
(REV 3-2007)

API NO. 47-095-02097

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

**CANCELLED**

NOTICE OF VIOLATION

LOCATION: FARM NAME Jay Bee Oil and Gas, Inc. WELL NO. RPT5-2  
DISTRICT McElroy COUNTY Tyler

TO: Jay Bee Oil and Gas Inc. DESIGNATED AGENT Randy Broada  
ADDRESS: Rt. 1 Box 5 ADDRESS Rt. 1 Box 5  
Cario, WV 26337 Cario, WV 26337

The above well is being violated this 7th day of June, 2016, for a violation of the PERMIT issued by the Office of Oil and Gas, Department of Environmental Protection, set forth in detail as follows:

*Findings: The well permit was issued on 4/23/2013 that contained an original plat dated 1/3/2013. A well operator's report of well work WR-35 was received on 4/27/2015 that indicated drilling commenced on 6/3/2013 and drilling ceased on 8/15/2013; and the report contained an as-drilled plat that indicated a change of the well bore curve resulting in deviations to the original permit plat and to the necessities within §22-6-8(c). These findings are failure to follow the terms of the permit.*

To abate the violation you must:

*Submit to the Office of Oil and Gas a letter of explanation that resulted in the deviation from the original permit plat. In addition submit and obtain an approved permit modification accordingly and include the filing(s) as needed in pursuance to the §22-6-8(c) requirements.*

This violation notice is provided by certified mail to the person or Designated Agent named above.

You are hereby granted until June 14, 2016, to abate this violation. Failure to abate the violation by that date will result in bond forfeiture and may result in assessment of civil penalties, filing of misdemeanor charges and/or an action for injunctive relief.

An informal conference with this enforcement section and the permitting manager should be arranged prior to the date set forth above for abatement of the violation.

If you wish to contest this violation, refer to procedures outlined in West Virginia Code 22-6-4.

SIGNED Justin Snyder  ADDRESS P.O. Box 19

TITLE Oil and Gas Inspector Lumberport, WV 26386

TELEPHONE 304-681-6995

**UNTIL THE DISTRICT OIL AND GAS INSPECTOR ISSUING THIS NOTICE RECEIVES A CALL FROM YOU (THE OPERATOR) STATING THIS VIOLATION IS ABATED, IT WILL BE ASSUMED THAT THE VIOLATION REMAINS UNABATED.**

10/07/2016