



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

JAY-BEE OIL & GAS, INC.
1720 RT. 22 E

UNION, NJ 070830000

Re: Permit Modification Approval for DOPEY 1A
47-095-02459-00-00

Update Landing Point

JAY-BEE OIL & GAS, INC.

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: DOPEY 1A
Farm Name: JOHN & PATTY MONTGOMERY
U.S. WELL NUMBER: 47-095-02459-00-00
Horizontal 6A / New Drill
Date Issued: 3/2/2018

Promoting a healthy environment.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Jay-Bee Oil & Gas, Inc 24610 Tyler McElroy Shirley
Operator ID County District Quadrangle

2) Operator's Well Number: Dopey 1A Well Pad Name: Dopey Pad

3) Farm Name/Surface Owner: John & Patty Montgomery Public Road Access: Indian Creek Rd

4) Elevation, current ground: 910.7' Elevation, proposed post-construction: 910.7'

5) Well Type (a) Gas X Oil Underground Storage

Other

(b) If Gas Shallow X Deep

Horizontal X

6) Existing Pad: Yes or No Yes

DMH
2-23-18 *QCB*
2/23/2018

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,630' Depth, 40' thickness, 3500# pressure

8) Proposed Total Vertical Depth: 6,630'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,482'

11) Proposed Horizontal Leg Length: 5,654.8'

12) Approximate Fresh Water Strata Depths: 176.91'

13) Method to Determine Fresh Water Depths: API 47-095-00010 for salt and coal. Freshwater was closest creek at 735' elevation.

14) Approximate Saltwater Depths: 1,132.91'

15) Approximate Coal Seam Depths: 114.91', 253.91', 347.91', 506.91', 569.91'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

RECEIVED
Office of Oil and Gas

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No X

FEB 26 2018

WV Department of
Environmental Protection

(a) If Yes, provide Mine Info: Name:
Depth:
Seam:
Owner:

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
T3055A	John & Patty Montgomery	JB Exploration I, LLC	12.5%	463-809
T3055B	Keith Fetty Freeland	JB Exploration I, LLC	12.5%	421-802
T3054D	Todd & Connie Davis	JB Exploration I, LLC	12.5%	471-420
T3058B&D	Donald Reynolds	Jay-Bee Production Company	12.5%	408-699
T3059	Mari-an Brill	Jay-Bee Production Company	12.5%	378-53
FoutT21	J&N Management, LLC	JB Exploration I, LLC	12.5%	536-200

Affidavit JB Exploration I, LLC/Jay-Bee Production Company to Jay-Bee Oil & Gas, Inc

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Jay-Bee Oil & Gas, Inc
 By: Shane Dowell
 Its: Office Manager

 Page 1 of 1

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	16	New	J55	40	30	30	8.22 CTS
Fresh Water	11 3/4	New	J55	32	300	300	142.25 CTS
Coal							
Intermediate	8 5/8	New	J55	24	2,000	2,000	508.43 CTS
Production	5 1/2	New	P110	17	15,482'	15,482'	2,509 — Cement up to 1000' from Surface
Tubing							
Liners							

DMH 2-23-18 *JEB 2/23/2018*

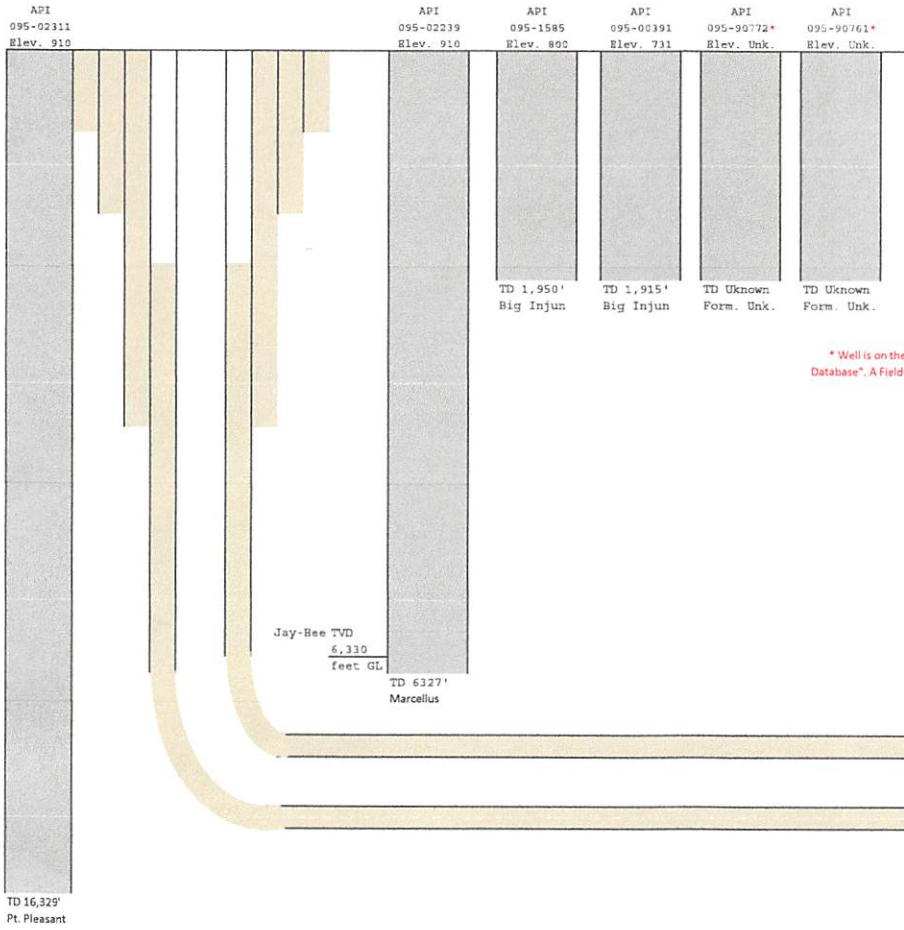
TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	16	17 1/2	.495	3,000#	50	Class A Cement	1.19
Fresh Water	11 3/4	15	.333	1,500#	1000	Class A Cement	1.26
Coal							
Intermediate	8 5/8	11	.264	2,950#	1500	Class A Cement	1.45
Production	5 1/2	7 7/8	.304	15,000#	2500	Type 1 Cement	1.34
Tubing							
Liners							

PACKERS

Kind:	N/A			RECEIVED Office of Oil and Gas
Sizes:				FEB 26 2013
Depths Set:				WV Department of Environmental Protection

Jay-Bee Oil & Gas Inc
 Well Name Dopey 1A
 GL Elevation 910.7

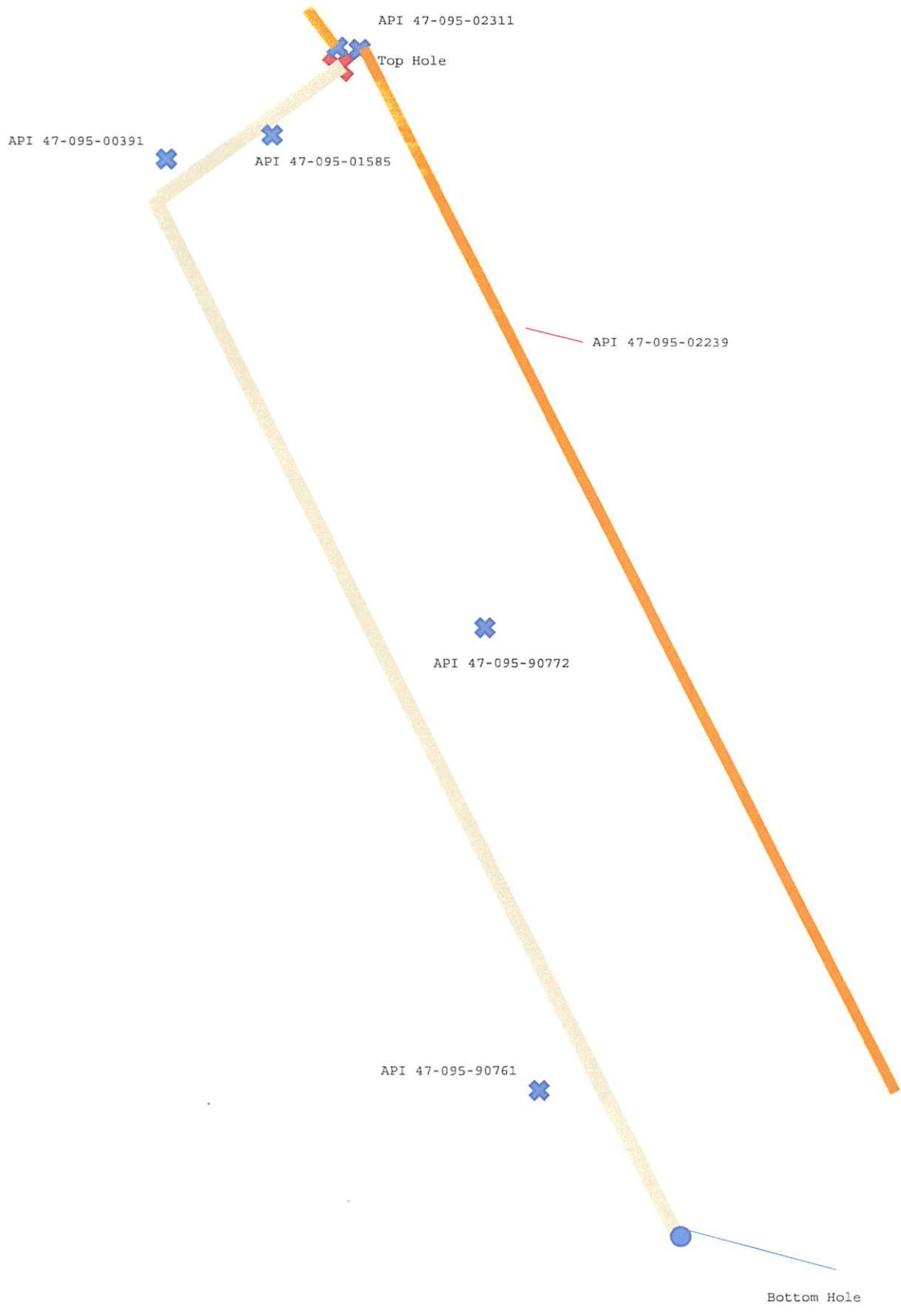
Well-Site Safety Plan Anti-Collision Schematic



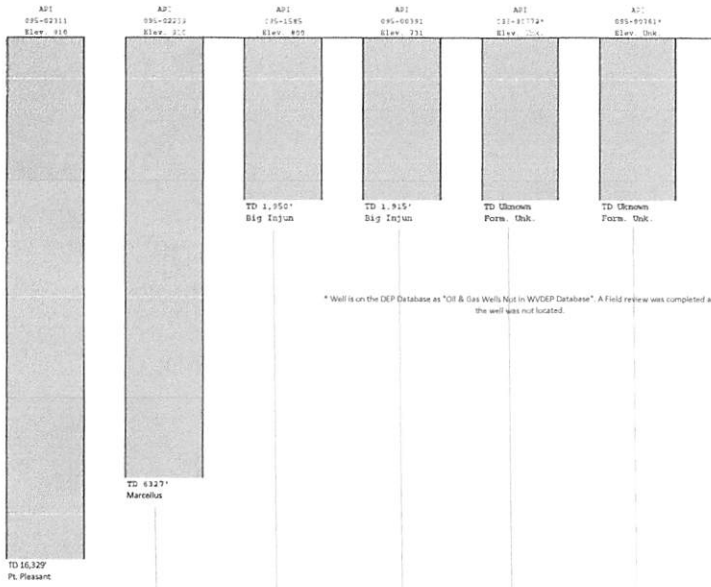
* Well is on the DEP Database as "Oil & Gas Wells Not in WVDEP Database". A Field review was completed and the well was not located.

Ja Total depth: 15,482' feet GL

Well-Site Safety Plan Anti-Collision Schematic



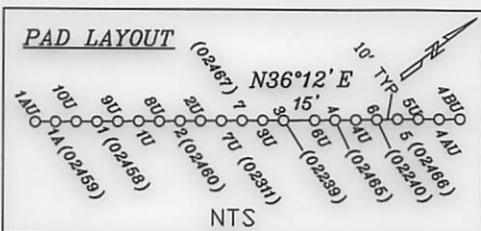
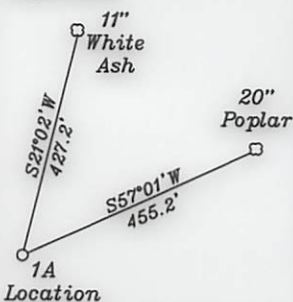
Area of Review
Dopey 1A - API 47-095-02459



* Well is on the DEP Database as "Oil & Gas Wells Not in WUGSP Database". A field review was completed and the well was not located.

Operator	Jay-Bee Oil & Gas, Inc	Jay-Bee Oil & Gas, Inc	Quaker State Oil Refining	Commonwealth Energy	Unknown	Unknown
Well Name	Dopey 7H	Dopey 1	None Ash 1	JW Site 1	Unknown	Unknown
Perforated Formations	Pt. Pleasant	Marcellus	Injun	Injun	Unknown	Unknown
Overperforated Producing Formations	Ulrich	Elk	Keener	Keener		
	Medina	Alexander	Big Lime	Big Lime		
	Newburg	Bencon	Maxon	Maxon		
	Waldersburg	Elley	Big Dunkard	Big Dunkard		
	Oriskany	Speaschley	Little Dunkard	Little Dunkard		
	Huntersville	Warren	Cow Run	Cow Run		
	Douchaga	Gordon				
	Marcellus	Gant's				
	Elk	Bees				
	Alexander	Wells				
	Bencon	Big Injun				
	Elley	Keener				
	Speaschley	Big Lime				
	Maxon	Maxon				
	Dunkard	Big Dunkard				
	Gant's	Little Dunkard				
	Bees	Cow Run				
	Wells					
	Big Injun					
	Keener					
Big Lime						
Maxon						
Big Dunkard						
Little Dunkard						
Cow Run						

References

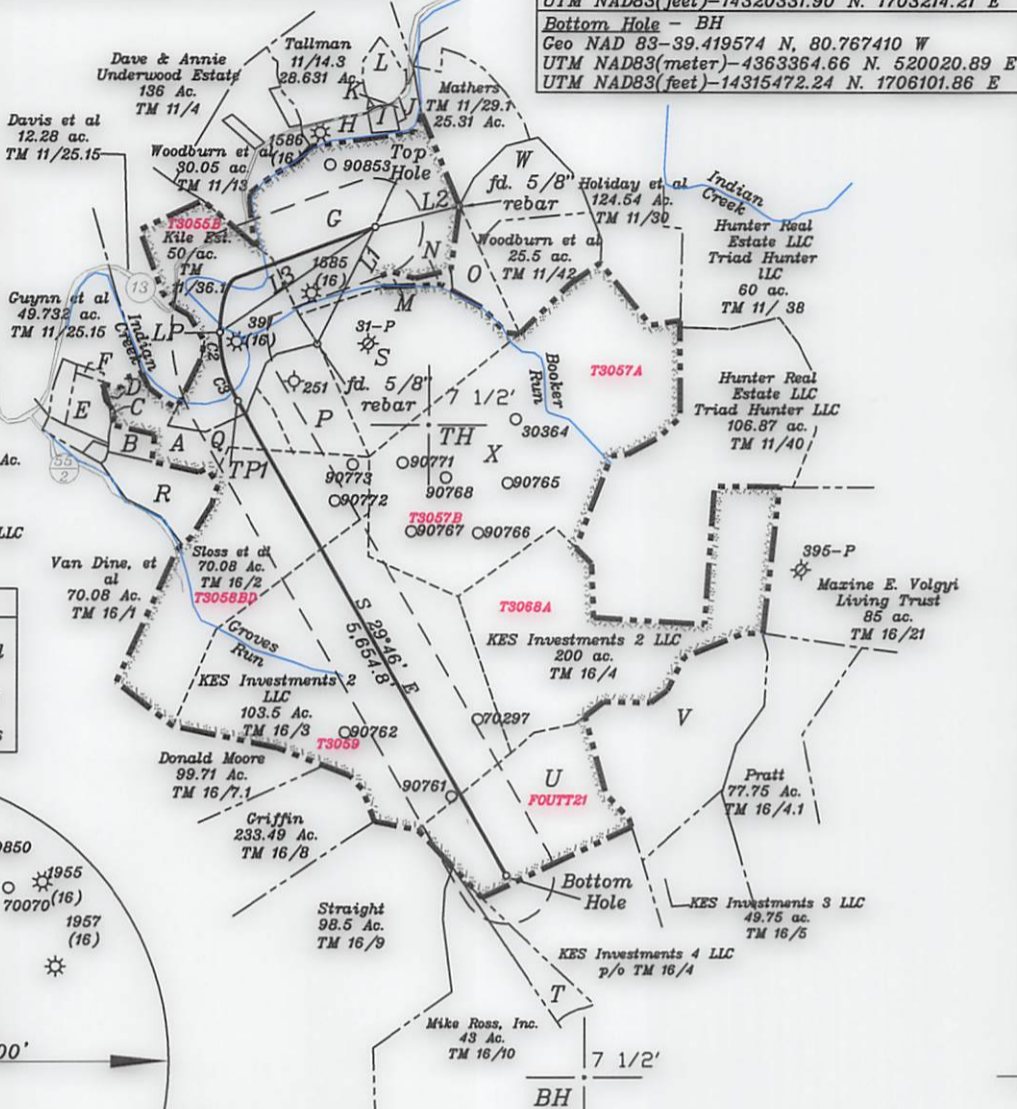
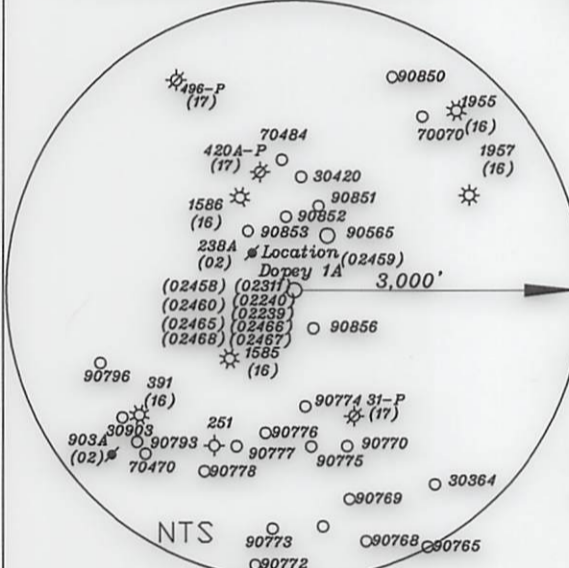


Top Hole - TH	
Geo NAD 83-	39.437964 N, 80.772641 W
UTM NAD83(meter)-	4365404.42 N, 519565.46 E
UTM NAD83(feet)-	14322164.34 N, 1704607.69 E
Landing Point - LP	
Geo NAD 83-	39.434896 N, 80.778298 W
UTM NAD83(meter)-	4365062.70 N, 519079.53 E
UTM NAD83(feet)-	14321043.22 N, 1703013.43 E
Turning Point - TPI	
Geo NAD 83-	39.432941 N, 80.777593 W
UTM NAD83(meter)-	4364845.89 N, 519140.73 E
UTM NAD83(feet)-	14320331.90 N, 1703214.21 E
Bottom Hole - BH	
Geo NAD 83-	39.419574 N, 80.767410 W
UTM NAD83(meter)-	4363364.66 N, 520020.89 E
UTM NAD83(feet)-	14315472.24 N, 1706101.86 E

- A- Davis TM 11/25.15 12.28 Ac.
- B- Davis TM 11/25.7 3.032 Ac.
- C- Cramer TM 11/25.16 0.14 Ac.
- D- Davis TM 11/25.15 12.28 Ac.
- E- Cramer TM 11/25.10 2.44 Ac.
- F- Cramer TM 11/25.14 0.54 Ac.
- G- Montgomery TM 11/27 65 Ac. T3055A
- H- Montgomery TM 11/14 2.18 Ac. T3052A
- I- Vincent TM 11/14.4 1.82 Ac. T3052A
- J- Riter (Life) TM 11 /29 1.63 Ac.
- K- Stillson TM 11 /28 0.37 Ac.
- L- Tallman TM 11 /14.5 5.135 Ac. T3052A
- M- Woodburn et al TM 11/45 0.755 Ac.
- N- Woodburn et al TM 11/44 1.5 Ac.
- O- Woodburn et al TM 11/44 6.75 Ac.
- P- Davis TM 11/41 18.82 Ac.
- Q- Davis TM 11/25.18 10 Ac. T3054D
- R- Yeater TM 11/25.12 13.75 Ac.
- S- Kile estate TM 11/36 57 Ac.
- T- Straight TM 16/11 12 Ac.
- U- KES Investments 3 LLC TM 16/4 49.13 Ac.
- V- KES Investments 3 LLL TM 16/4 Residue of 78.4 Ac.
- W- Woodburn et al TM 11/43 35 Ac.
- X- Hunter Real Estate LLC, Triad Hunter LLC TM 11/37 147 Ac.

LEGEND

--- (dashed line)	Lease lines
--- (dashed line)	500' from well bore path
--- (dashed line)	Surface tracts within lease
--- (dashed line)	Adjoiner tracts



- 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 Crd North-WV North Zone NAD 83.
 - No water wells were found within 250' of the well location. A house was found N55°54'W 614.3' from the center of the well pad.

NUMBER	DIRECTION	DISTANCE
L1	N 26°07' E	1,3568'
L2	S 76°15' W	898.7'
L3	S 55°50' W	1,949.7'

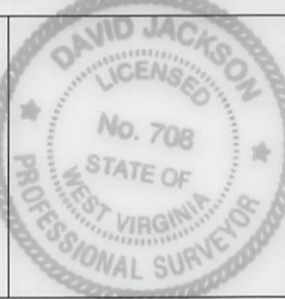
NUMBER	CHORD	DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C2	506°42' E	1,432.41'	342.19'	341.38'	
C3	S27°39' E	1,432.37'	405.64'	404.28'	

(+) 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 February 22, 2018
 OPERATOR'S WELL NO. Dopey 1A
 API WELL NO. 47 095 02459 MDD
 STATE COUNTY PERMIT H6A

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

LOCATION: ELEVATION 910.7' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Shirley 7 1/2'

SURFACE OWNER John & Patty Montgomery ACREAGE 65 ac.
 OIL & GAS ROYALTY OWNER & LEASE NO. See Above for Lease Numbers

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 TVD = 6,630'; TMD = 15,482'
 WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337

LONGITUDE 80-45-00 W
 Bottom Hole 14,119'
 Top Hole 7,358'