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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

March 2, 2018  
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 1  
47-095-02458-00-00

**Modified Curve in Lateral**

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 1  
Farm Name: JOHN & PATTY MONTGOMERY  
U.S. WELL NUMBER: 47-095-02458-00-00  
Horizontal 6A / New Drill  
Date Issued: March 2, 2018

Promoting a healthy environment.

03/02/2018

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 1 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  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_  
(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal

6) Existing Pad: Yes or No Yes

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

*QEB*  
*2/23/2018*  
*DH 2-23-18*

8) Proposed Total Vertical Depth: 6,630'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,394'

11) Proposed Horizontal Leg Length: 5,825.7'

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

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Office of Oil and Gas  
FEB 26 2018

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

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

WV Department of Environmental Protection  
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Office of Oil and Gas  
FEB 26 2018

WV Department of Environmental Protection

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	14,394'	14,394'	2320.6 — Cement up to 1000' from Surface
Tubing							
Liners							

*DMH*  
2-23-18

*QCB*  
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			
Sizes:				
Depths Set:				

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Office of Oil and Gas

FEB 23 2018

WV Department of  
Environmental Protection



**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
T3057B	Morris Smith Irrevocable Trust	JB Exploration I, LLC	12.5%	485-237
T3068A	Donald & Dora Seckman	JB Exploration I, LLC	12.5%	429-826
FoutT21	J&N Management, LLC	JB Exploration I, LLC	12.5%	536-200

Affidavit                      JB Exploration I, LLC                      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

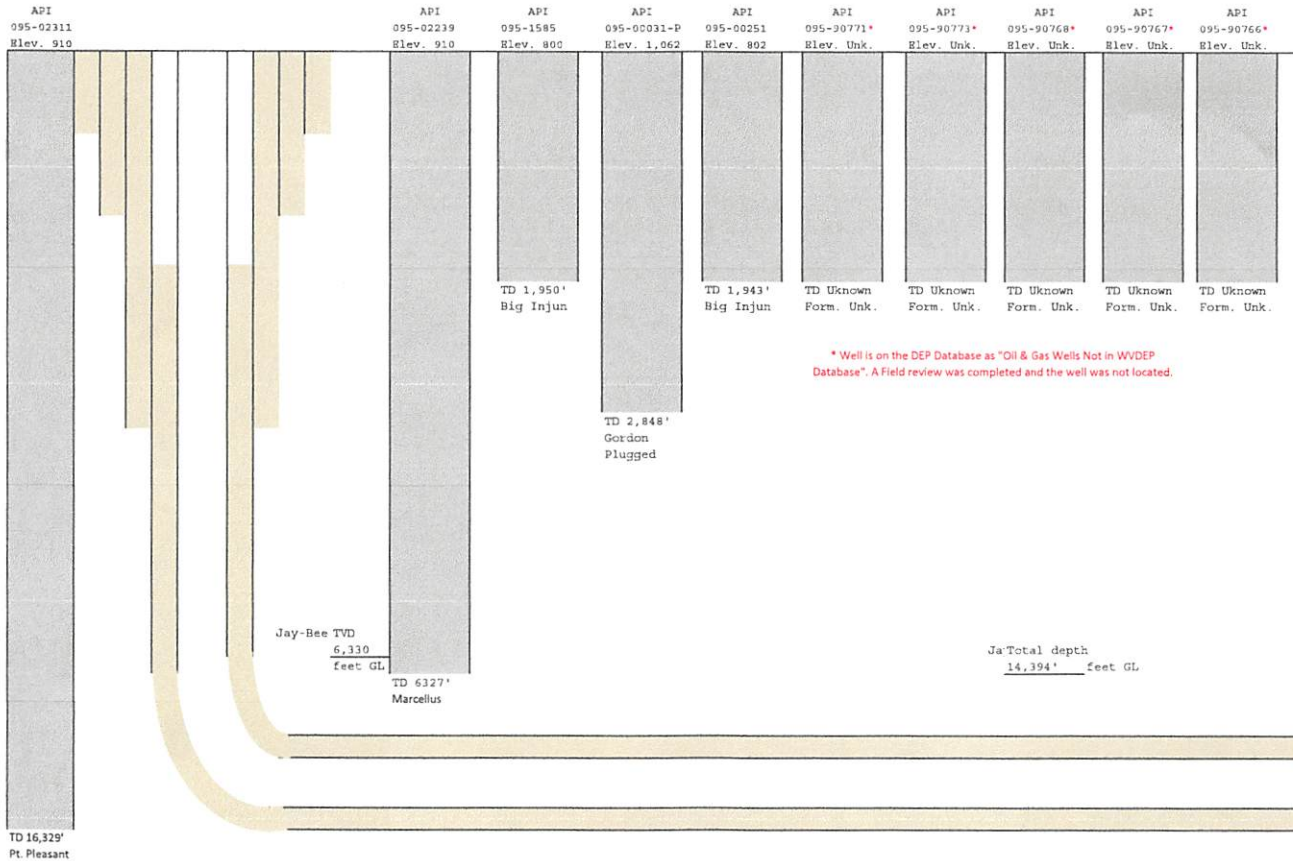
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity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

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

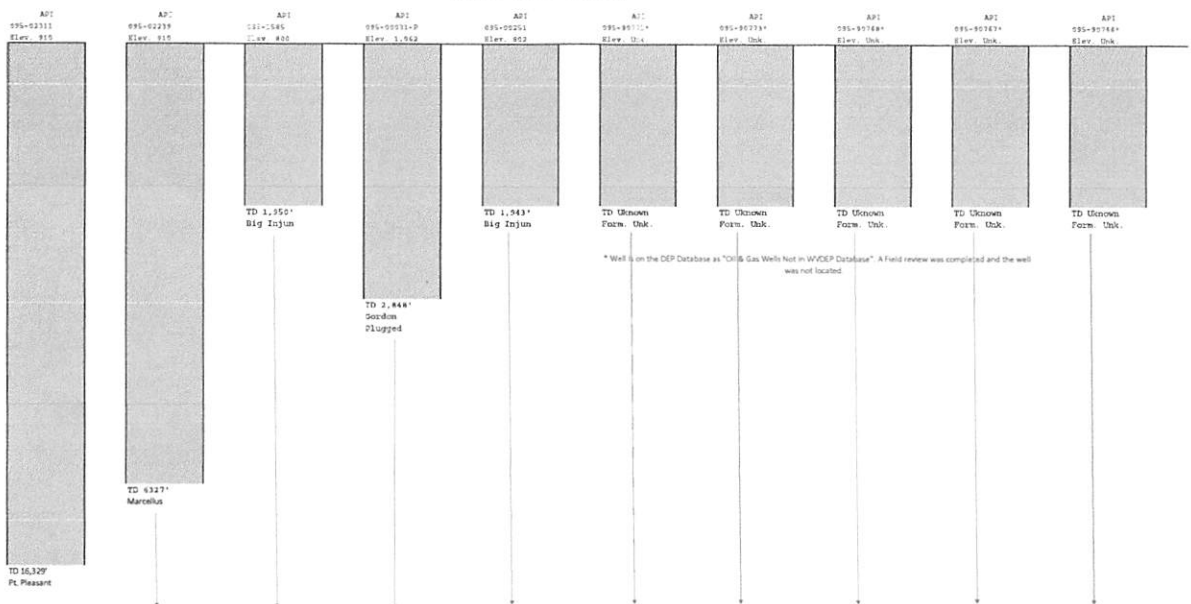


Jay-Bee Oil & Gas Inc  
 Well Name Dopey 1  
 GL Elevation 910.7

Well-Site Safety Plan Anti-Collision Schematic

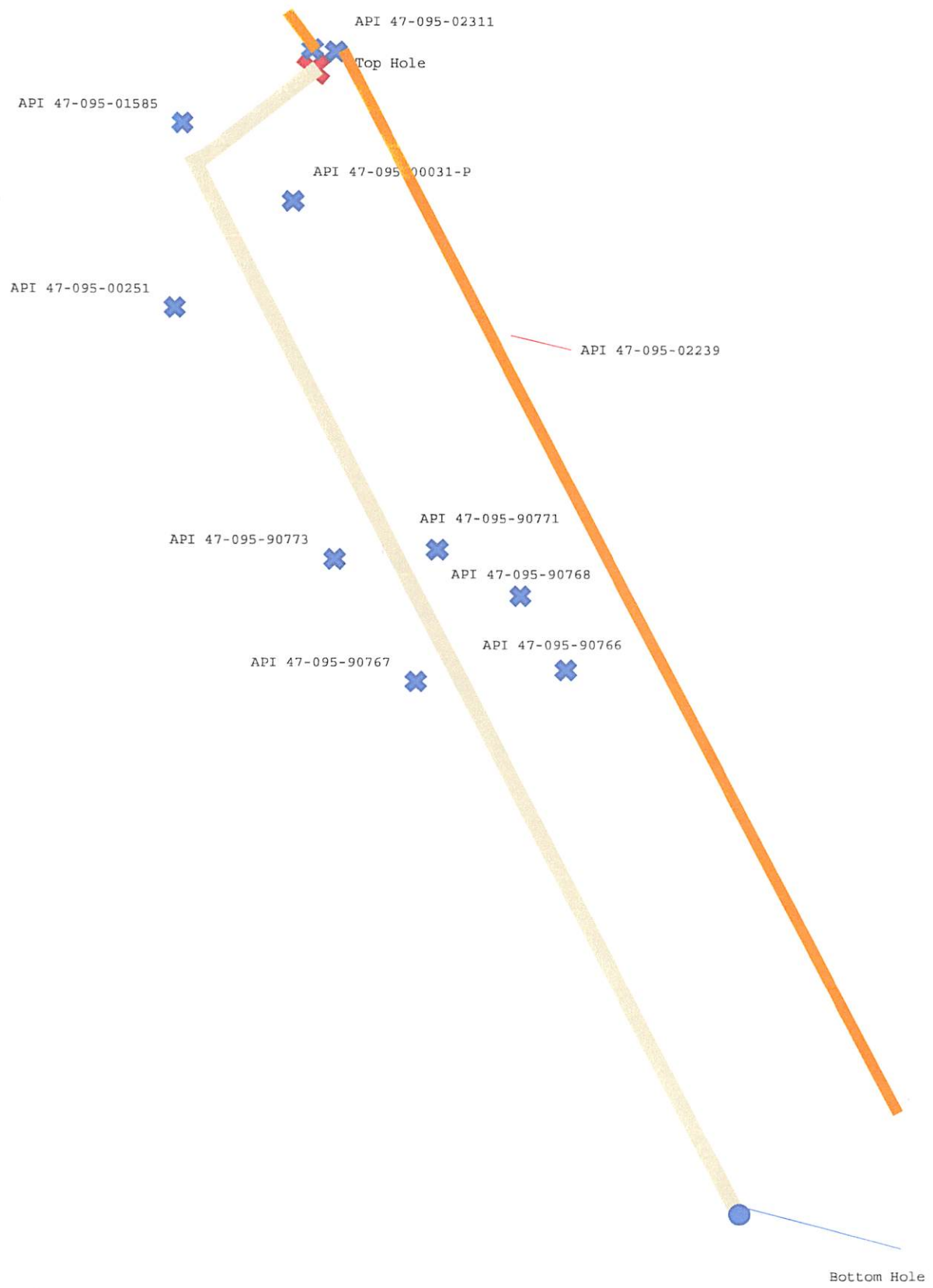


**Area of Review**  
Dopey 1 - API 47-095-02458



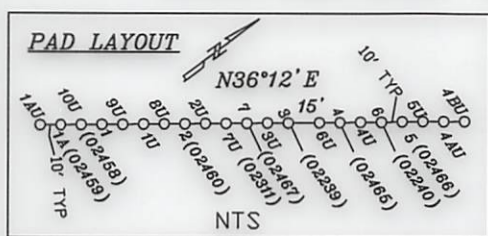
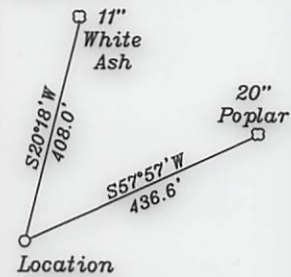
Operator	Jay-Bee Oil & Gas, Inc.	Jay-Bee Oil & Gas, Inc.	Quaker State Oil Refining	American Oil & Develop. Co.	Ralph Halbert	Unknown	Unknown	Unknown	Unknown	Unknown
Well Name	Dopey 10	Dopey 1	Zone Auh 1	14	2	Unknown	Unknown	Unknown	Unknown	Unknown
Perforated Formations	Pc Pleasant	Marcellus	Injun	Gordon	Injun	Unknown	Unknown	Unknown	Unknown	Unknown
Unperforated Producing Formations	Orica	Elk	Keener	Gantz	Keener					
	Medina	Alexander	Big Line	Berea	Big Line					
	Webb	Benon	Mason	Big Injun	Mason					
	Palmerbury	Riley	Big Dunkard	Big Injun	Big Dunkard					
	Cleokaty	Speckley	Little Dunkard	Keener	Little Dunkard					
	Hunterville	Warren	Cow Run	Big Line	Cow Run					
	Conroy	Gordon		Keener						
	Marcellus	Gantz		Big Dunkard						
	Bik	Berea		Little Dunkard						
	Alexander	Weis		Cow Run						
	Keener	Big Injun								
	Riley	Keener								
	Speckley	Big Line								
	Mason	Keener								
	Gordon	Big Dunkard								
Gantz	Little Dunkard									
Berea	Cow Run									
Keener										
Big Injun										
Keener										
Big Line										
Mason										
Big Dunkard										
Little Dunkard										
Cow Run										

### Well-Site Safety Plan Anti-Collision Schematic



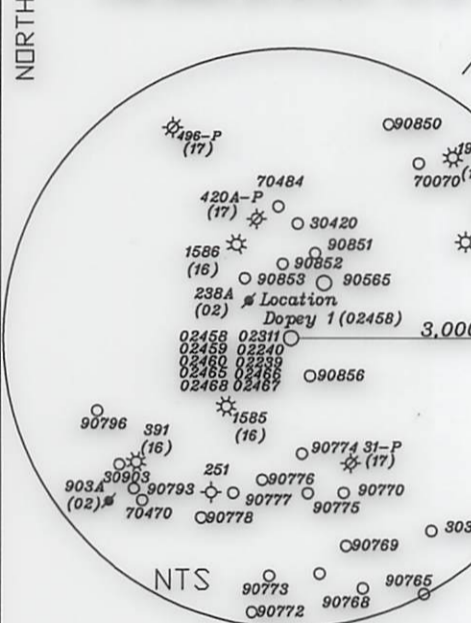
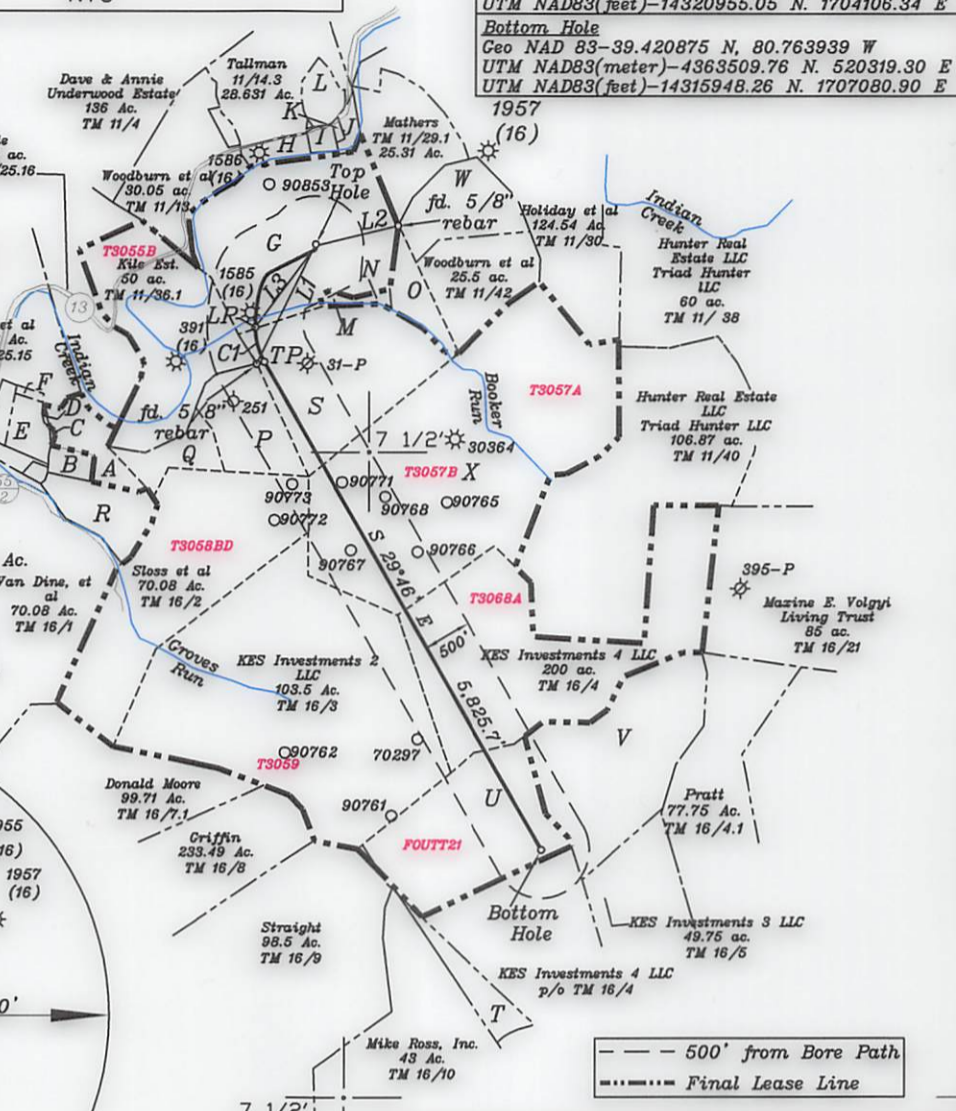


References



<b>Top Hole</b>
Geo NAD 83-39.438009 N, 80.772600 W
UTM NAD83(meter)-4365409.40 N, 519568.98 E
UTM NAD83(feet)-14322180.67 N, 1704619.23 E
<b>Landing Point - LP</b>
Geo NAD 83-39.435619 N, 80.774780 W
UTM NAD83(meter)-4365143.65 N, 519382.07 E
UTM NAD83(feet)-14321308.79 N, 1704006.00 E
<b>Turning Point 1 - TPI</b>
Geo NAD 83-39.434646 N, 80.774428 W
UTM NAD83(meter)-4365035.83 N, 519412.65 E
UTM NAD83(feet)-14320955.05 N, 1704108.34 E
<b>Bottom Hole</b>
Geo NAD 83-39.420875 N, 80.763939 W
UTM NAD83(meter)-4363509.76 N, 520319.30 E
UTM NAD83(feet)-14315948.26 N, 1707080.90 E

- A- L. Davis TM 11/25.15 12.28 Ac.
- B- T. Davis TM 11/25.7 3.032 Ac.
- C- Cramer TM 11/25.16 0.14 Ac.
- D- L. 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.
- 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.



- 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 well location. A house was found N56°54'W 614.3' from the center of the well pad.

NUMBER	CHORD	DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C1	S 14°53' E		716.20'	371.98'	367.82'

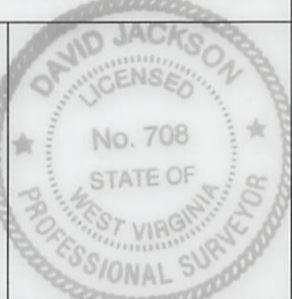
NUMBER	DIRECTION	DISTANCE
L1	S 26°16' W	1,376.4'
L2	N 75°34' E	743.0'
L3	S 36°05' W	1,066.3'

(+) 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 1  
 API WELL NO. 47-095-02458 MOD  
 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 **03/02/2018**  
 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 = 14,394'  
 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