

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

API 47-095-02459 County Tyler District McElroy
Quad Shirley 7.5' Pad Name Dopey Field/Pool Name _____
Farm name John & Patty Montgomery Well Number Dopey 1A
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 4365404.27 Easting 519565.40
Landing Point of Curve Northing 4365042.94 Easting 519074.79
Bottom Hole Northing 4363645.65 Easting 519851.39

Elevation (ft) 910.3' 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)
Synthetic OBM

Date permit issued 09/15/17 Date drilling commenced 03/19/18 Date drilling ceased 04/02/18
Date completion activities began 05/18/18 Date completion activities ceased 06/12/18
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

WV Department of
Environmental Protection

Freshwater depth(s) ft 176.91' 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

Reviewed by:

JEB
5/29/2019

API 47-095 - 02459 Farm name John & Patty Montgomery Well number Dopey 1A

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	J55-40LB/FT		Y
Surface	17 1/2"	13 3/8"	377'	New	J55-32LB/FT	46'&336'	Y
Coal							
Intermediate 1	11"	8 5/8"	2068'	New	J-55/24#	86'&1941'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	12529'	New	P110-17LB/FT		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	403	15.6	1.1966	482	CTS	8
Coal							
Intermediate 1	Class A	646	15.6	1.1881	768	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	1796	14.5	1.1744	2108	1000'	8
Tubing							

Drillers TD (ft) 12551 Loggers TD (ft) 12551

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6200'

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 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 - 02459 Farm name John & Patty Montgomery Well number Dopey 1A

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/17/18	12368	12276	45	Marcellus
2	5/17/18	12236	12103	72	Marcellus
3	5/17/18	12059	11892	72	Marcellus
4	5/19/18	11842	11717	72	Marcellus
5	5/19/18	11683	11540	72	Marcellus
6	5/20/18	11478	11347	72	Marcellus
7	5/20/18	11302	11157	72	Marcellus
8	5/21/18	11095	10921	72	Marcellus
9	5/21/18	10880	10739	72	Marcellus
10	5/22/18	10701	10541	72	Marcellus
11	5/22/18	10490	10317	72	Marcellus
12	5/23/18	10275	10115	72	Marcellus
13	5/23/18	10065	9947	72	Marcellus
14	5/24/18	9906	9747	72	Marcellus
15	5/24/18	9704	9531	72	Marcellus
16	5/24/18	9489	9289	72	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	5/17/18	54	7037	5255	4353	176380	6581	N/A
2	5/19/18	60	5927	6235	5419	172160	12586	N/A
3	5/20/18	60	6163	5595	5602	165580	6096	N/A
4	5/20/18	64	6099	6085	4556	171820	6563	N/A
5	5/20/18	60	6054	5759	5139	173600	8588	N/A
6	5/20/18	65	6223	5632	5105	167160	5851	N/A
7	5/21/18	66	6244	5740	4566	179820	6265	N/A
8	5/21/18	64	5949	5887	4320	186360	6871	N/A
9	5/22/18	52	5444	6403	4710	166520	5936	N/A
10	5/22/18	63	6053	5775	4777	171280	6832	N/A
11	5/23/18	64	6054	6272	3840	173100	6655	N/A
12	5/23/18	70	6251	5465	4752	176480	6767	N/A
13	5/24/18	70	6088	6315	4739	175800	6332	N/A
14	5/24/18	63	6032	5650	4524	170800	6579	N/A
15	5/25/18	67	5878	6334	4656	172060	6140	N/A
16	5/25/18	69	6185	5728	4293	178120	6116	N/A

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Please insert additional pages as applicable.

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API 47-095 02459 Farm name John & Patty Montgomery Well number Dopey 1A

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	5/24/18	9245	9103	72	Marcellus
18	6/7/18	9056	8943	72	Marcellus
19	6/7/18	8898	8752	72	Marcellus
20	6/7/18	8706	8539	72	Marcellus
21	6/8/18	8497	8351	72	Marcellus
22	6/9/18	8303	8165	72	Marcellus
23	6/10/18	8119	7926	72	Marcellus
24	6/10/18	7891	7757	72	Marcellus
25	6/10/18	7694	7531	72	Marcellus
26	6/11/18	7470	7322	72	Marcellus
27	6/11/18	7281	7170	72	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)
17	6/7/18	72	6745	6196	3754	214860	6655	N/A
18	6/8/18	75	6699	5899	3608	223180	6494	N/A
19	6/8/18	71	6372	6714	4746	219760	6264	N/A
20	6/9/18	79	6412	6670	3824	213720	6260	N/A
21	6/9/18	79	6331	5626	3992	219380	6002	N/A
22	6/10/18	79	6383	6040	4717	212720	6101	N/A
23	6/10/18	79	6107	5903	3738	215660	6632	N/A
24	6/10/18	73	6458	6050	4155	215800	6190	N/A
25	6/11/18	73	6094	5938	5318	209360	6217	N/A
26	6/12/18	80	6267	5621	4782	212400	5708	N/A
27	6/12/18	80	6310	6044	4860	215640	6310	N/A

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	6632.8'	TVD	12551' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2800 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5200 mcfpd Oil bpd NGL bpd Water bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
See Attached.	0		0		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI
Address 10713 West Sam Houston Parkway North Suite 800 City Houston State TX Zip 77064

Logging Company Appalachian Well Surveys Inc
Address 10291 Ohio Avenue City Cambridge State OH Zip 43725

Cementing Company BJ Services
Address 3415 Millennium BLVD SE City Massillon State OH Zip 44646

Stimulating Company FTS International
Address 7248 John Patterway Jr. BLVD City Shreveport State LA Zip 71129

Please insert additional pages as applicable.

Completed by Tyler DuFour Telephone 304-628-3111
Signature  Title Office Manager Date 5/3/19

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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: 47-095-02459 County: Tyler
District: McElroy Well No: Dopey 1A
Farm Name: John & Patty Montgomery
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

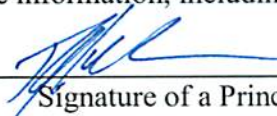
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Name of Principal Exec. Officer: Tyler DuFour
Title of Officer: Office Manager
Date Completed: 5/3/19

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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 John & Patty Montgomery

Address 107 Basil Drive Weirton, WV 26047

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 - 02459 _____;

Acreage 65 _____;

Watershed Indian Creek _____;

District McElroy _____;

County Tyler _____;

Public Road Access _____;

Generally used farm name John & Patty Montgomery _____.

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 Rd.

Cairo, WV 26337

Telephone 304-628-3111

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Lithology

Dopey 1A

47-095-02459

FORMATION	TOP	BOTTOM
MISC. RED ROCK & SHALES	0	1960
LIME	1960	2060
INJUN	2060	2177
SHALE	2177	2524
GORDON STRAY	2524	2544
SHALE	2544	2740
GORDON	2740	2770
SHALE	2770	3049
BAYARD	3049	3058
SHALE	3058	3387
WARREN	3387	3485
SHALE	3485	3721
BALLTOWN	3721	3884
SHALE	3884	4322
2ND RILEY	4322	4430
SHALE	4430	4581
3RD RILEY	4581	4622
SHALE	4622	4679
BENSON	4679	4682
SHALE	4682	4924
ALEXANDER	4924	5095
SHALE	5095	5340
ELK	5340	5388
SHALE	5388	5717
HAMILTON	5717	5891
SHALE	5891	6547
UPPER MARCELLUS	6547	6570
PARCELL LIME	6570	6605
SHALE	6605	6627
LOWER MARCELLUS	6627	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/18/2018
Job End Date:	6/12/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02459-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Dopey 1A
Latitude:	39.43796400
Longitude:	-80.77264100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,633
Total Base Water Volume (gal):	7,599,816
Total Base Non Water Volume:	58,832



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	91.77127	
Other Chemical (s)	Listed Above	See Trade Name (s) List					
			Water	7732-18-5	55.00000	0.01458	

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				Water	7732-18-5	55.00000	0.01276	
				Water	7732-18-5	60.00000	0.00133	
				Water	7732-18-5	85.00000	0.54550	
				Water	7732-18-5	50.00000	0.03546	
CI-150	FTSI	Acid Corrosion Inhibitor			Listed Below			
CS-500 SI	FTSI	Scale inhibitor			Listed Below			
CS-1000 SI	FTSI	Scale Inhibitor			Listed Below			
FRW-1450	FTSI	Friction Reducer			Listed Below			
SPB-1	FTSI	Breaker			Listed Below			
10.1%-15.0% HCL	FTSI	Acid			Listed Below			
	FTSI	Water gelling agent			Listed Below			

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Department of
Production

ICI-3240	FTSI	Biocide				Listed Below			
20/40 White	FTSI	Proppant				Listed Below			
30/50 White	FTSI	Proppant				Listed Below			
100 Mesh Sand	FTSI	Proppant				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	3.69912		
			Silica, Quartz		14808-60-7	100.00000	2.99807		
			Silica, Quartz		14808-60-7	100.00000	0.75878		
			Hydrogen Chloride		7647-01-0	15.00000	0.09626		
			Cationic Polyacrylamide		9003-05-8	30.00000	0.02127		
			Distillates (petroleum), hydrotreated light		64742-47-8	30.00000	0.02127		
			Phosphonic Acid, (Nitrilotris (methylene)) Tris		6419-19-8	35.00000	0.00812		
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.		533-74-4	24.00000	0.00636		
			Sodium Hydroxide		1310-73-2	23.00000	0.00610		
			Alcohols, C11-14-iso-, C13-rich, ethoxylated		78330-21-9	5.00000	0.00355		
			Guar gum		9000-30-0	55.00000	0.00317		

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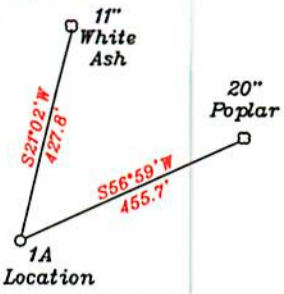
			Petroleum Distillate	64742-47-8	55.00000	0.00317
			Raffinates, Sorption Process	64741-85-1	55.00000	0.00317
			Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00129
			Phosphonic Acid, {(Dimethylamino) Methylene} Bis -	29712-30-9	5.00000	0.00116
			Methanol	67-56-1	90.00000	0.00099
			Phosphorous Acid	10294-56-1	2.00000	0.00046
			Suspending Agent	1302-78-9	5.00000	0.00029
			Ethylene glycol	107-21-1	13.00000	0.00029
			Sodium Polyacrylate	9003-04-7	13.00000	0.00029
			Quartz	14808-60-7	4.00000	0.00023
			Sodium chloride	7647-14-5	10.00000	0.00022
			Orthophosphoric acid	7664-38-2	0.75000	0.00017
			Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00012
			Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00011
			Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00011
			Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00011
			Propargyl Alcohol	107-19-7	5.00000	0.00005
			N-olefins	Proprietary	3.00000	0.00003
			Sodium Metaborate	7775-19-1	1.40000	0.00002
			Hydrochloric acid	7647-01-0	0.00500	0.00000
			Acrylic Polymer	Proprietary		

* 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

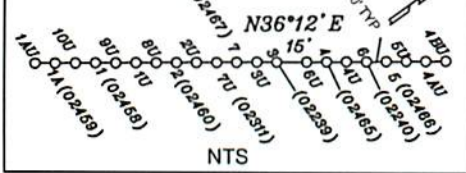
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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References



PAD LAYOUT



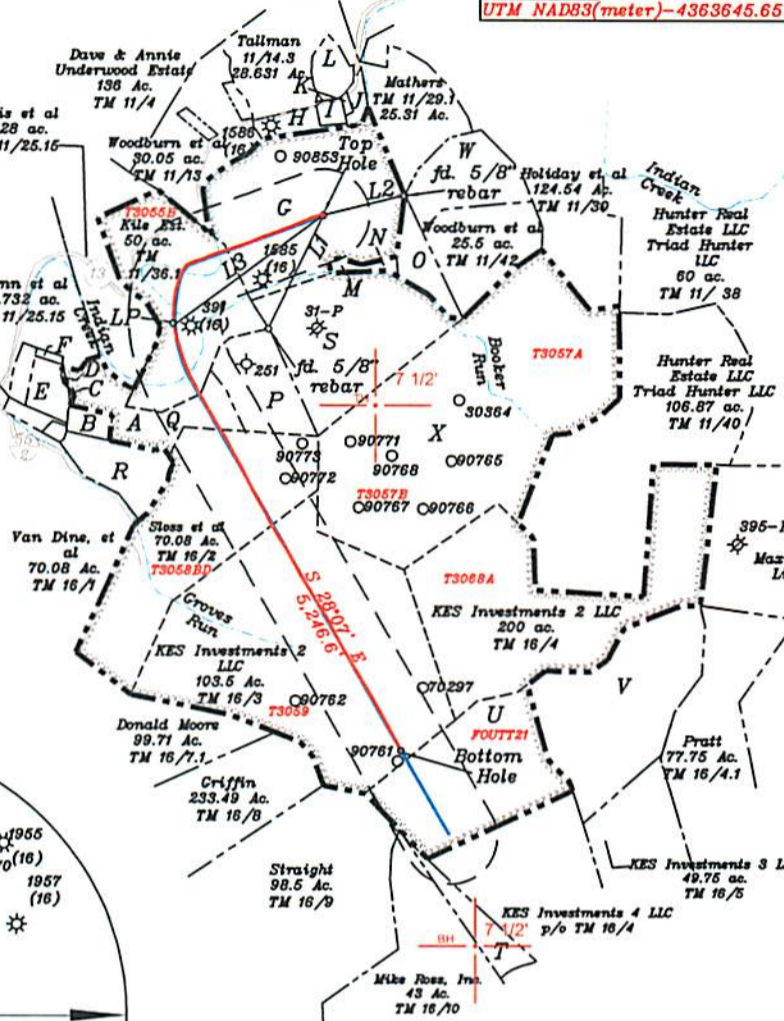
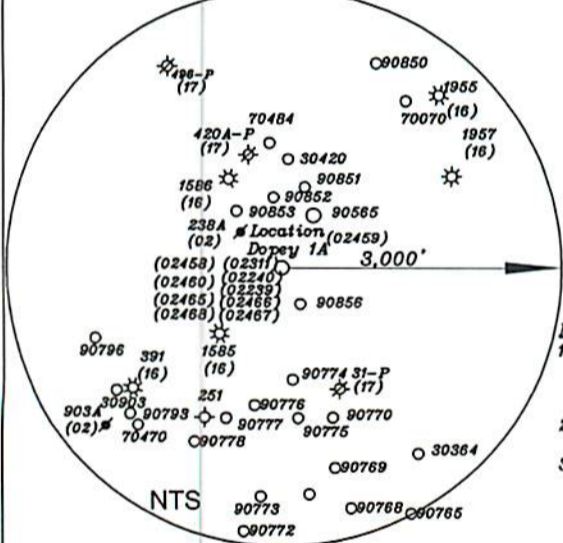
Top Hole	UTM NAD83(meter)-4365404.42 N. 519565.46 E
Landing Point	UTM NAD83(meter)-4365062.70 N. 519079.53 E
Bottom Hole	UTM NAD83(meter)-4363364.66 N. 520020.89 E
Top Hole	UTM NAD83(meter)-4365404.27 N. 519565.40 E
Landing Point	UTM NAD83(meter)-4365042.94 N. 519074.79 E
Bottom Hole	UTM NAD83(meter)-4363645.65 N. 519851.39 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- Ritter (L/A) 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 8.75 Ac.
- P- Davis TM 11/41 18.82 Ac.
- Q- Yeater 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

-----	Lease lines
-----	500' from well bore path
-----	Surface tracts within lease
-----	Adjoiner tracts

NORTH



- 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 N65°54'W 614.3' from the center of the well pad.

NUMBER	DIRECTION	DISTANCE
L1	N 26°07' E	1,356.2'
L2	S 76°13' W	899.0'
L3	S 54°35' W	1,999.7'

(+) 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 12, 2019
 OPERATOR'S WELL NO. Dopey 1A
 API WELL NO. 47-095-02459

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

LOCATION: ELEVATION 910.3' 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 CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ASDRILLED

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,632.8'; TMD = 12,551'
 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

RECEIVED
 Office of Oil and Gas
 MAY 7 2019
 WV Department of Environmental Protection

LONGITUDE 80-45-00 W
 Bottom Hole 13,194'
 Top Hole 7,358'

References

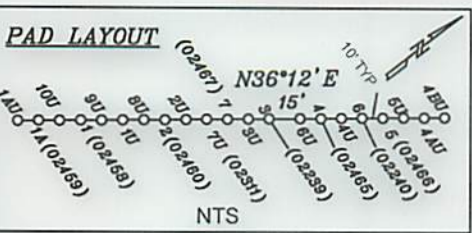
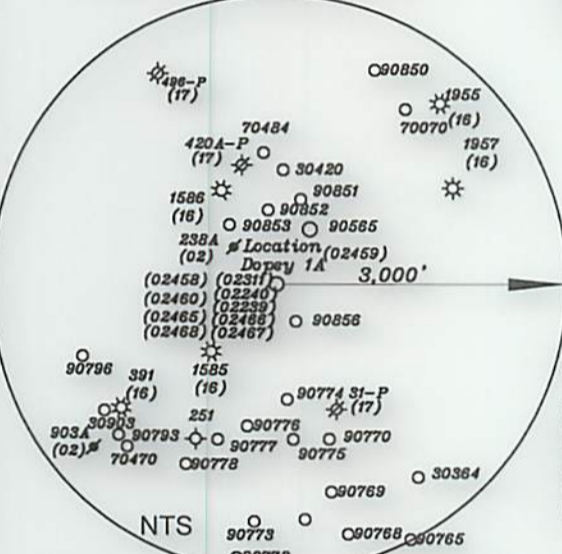


Table with 2 columns: Well Name, UTM NAD83(meter) coordinates. Includes Top Hole, Landing Point, and Bottom Hole for multiple wells.

- List of adjacent tracts: 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., etc.

LEGEND: Lease lines (dashed), 500' from well bore path (dotted), Surface tracts within lease (dashed with dots), Adjoiner tracts (dash-dot).



- 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.

Table with 3 columns: NUMBER, DIRECTION, DISTANCE. Lists L1, L2, L3 with bearings and distances.

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



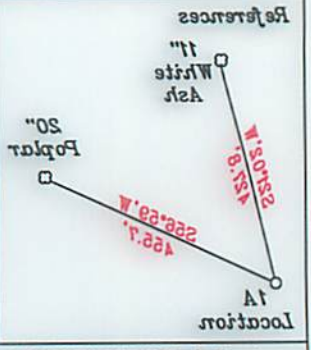
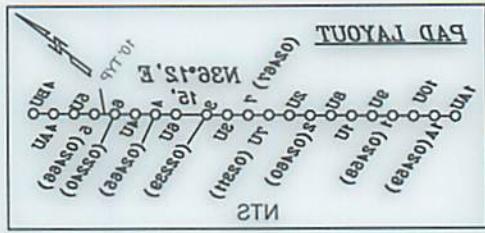
STATE OF WEST VIRGINIA Division of Environmental Protection OFFICE OF OIL AND GAS WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (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

DATE February 12, 2019 OPERATOR'S WELL NO. Dopey 1A API WELL NO. 47 095 02459

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ 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 = 6,632.8'; TMD = 12,551' 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

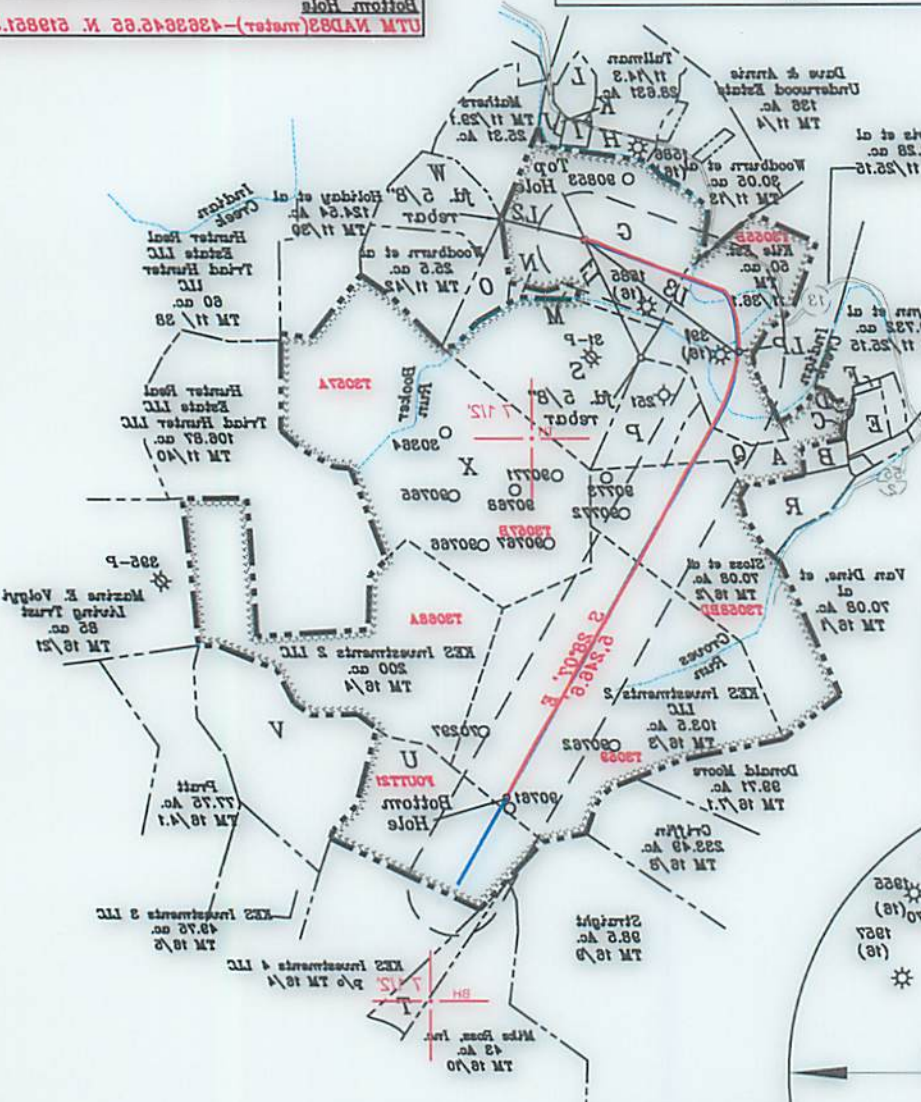
Bottom Hole 5.470'

Top Hole	UTM NAD83 (meter) -438240.42 N 518662.46 E
Landmark Point	UTM NAD83 (meter) -438208.70 N 518078.63 E
Bottom Hole	UTM NAD83 (meter) -438336.66 N 520050.89 E
Top Hole	UTM NAD83 (meter) -438240.42 N 518662.46 E
Landmark Point	UTM NAD83 (meter) -438208.70 N 518078.63 E
Bottom Hole	UTM NAD83 (meter) -438336.66 N 518662.39 E



Top Hole 6.248'

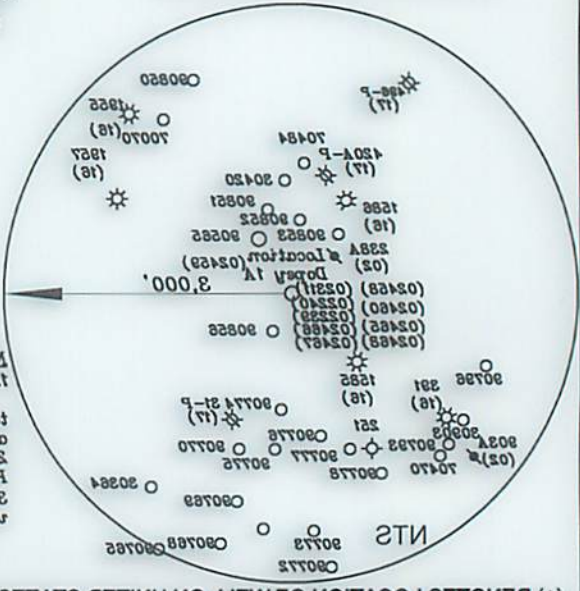
Longitude 80 34 29 W



A-Davis TM 11/25/15 12.28 Ac.
B-Davis TM 11/25/15 2.032 Ac.
C-Cramer TM 11/25/15 0.14 Ac.
D-Davis TM 11/25/15 12.28 Ac.
E-Cramer TM 11/25/15 2.44 Ac.
F-Cramer TM 11/25/15 0.34 Ac.
G-Montgomery TM 11/25/15 65 Ac.
H-Montgomery TM 11/25/15 2.18 Ac.
I-Prince TM 11/25/15 1.82 Ac.
J-Prince TM 11/25/15 1.82 Ac.
K-William TM 11/25/15 2.87 Ac.
L-Tollman TM 11/25/15 2.12 Ac.
M-Woodburn et al TM 11/25/15 0.75 Ac.
N-Woodburn et al TM 11/25/15 1.5 Ac.
O-Woodburn et al TM 11/25/15 6.75 Ac.
P-Davis TM 11/25/15 10 Ac.
Q-Davis TM 11/25/15 10 Ac.
R-Kate estate TM 11/25/15 27 Ac.
T-Stratight TM 18/12 12 Ac.
U-KES Investments 3 LLC TM 18/12 12.13 Ac.
V-KES Investments 3 LLC TM 18/12 12.13 Ac.
W-Woodburn et al TM 11/25/15 25 Ac.
X-Hunter Real Estate LLC, Triad Hunter LLC
Y-TM 11/27 147 Ac.

—LEGEND—

-----	Adjacent tracts
- - - - -	Surface tracts with lease
-----	port path
- - - - -	500' from well
-----	Lease lines



Notes:

1. All wells within 500' of the horizontal leg are shown on this plot based upon information taken from DEP mapping, well plates & 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 well location. A horse was found center of the well pad.

NUMBER	DIRECTION	DISTANCE
L1	N 28.07' E	1,366.3'
L2	S 76.13' W	893.0'
L3	S 64.25' W	1,988.7'

AS-DRILLED LEG
PROPOSED LEG

(+) 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 error

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.

(Signature)
 R.P.E. P.S. 708



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

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____
 (IF "GAS") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 910.3' WATER SHED Indian Creek - Outlet Middle Island Creek (HUC-10)
 DISTRICT McHenry
 QUADRANGLE Shirley 7 1/2'
 SURFACE OWNER John & Patty Montgomery
 OIL & GAS ROYALTY OWNER & LEASE NO. _____
 See Above for Lease Numbers

WELL OPERATOR Jay Bee Oil & Gas, Inc.
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,632.8'; TMD = 12,251'
 PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 DESIGNATED AGENT Randy Broda
 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337
 DATE February 15, 2019
 OPERATOR'S WELL NO. Dopey 1A
 STATE COUNTY PERMIT 02459
 WASTE DISPOSAL _____
 ACREAGE 65 ac.