

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

API 47-095-02467 County Tyler District McElroy
Quad Shirley 7.5' Pad Name Dopey Field/Pool Name _____
Farm name John & Patty Montgomery Well Number Dopey 7
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 4365426.54 Easting 519581.31
Landing Point of Curve Northing 4365507.40 Easting 519217.00
Bottom Hole Northing 4366807.34 Easting 518299.49

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 02/10/18 Date drilling ceased 02/22/18
Date completion activities began 06/15/18 Date completion activities ceased 06/14/18
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 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: JCB
6/24/2019

API 47-095 - 02467 Farm name John & Patty Montgomery Well number Dopey 7

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"	376'	New	J55-32LB/FT	43'&376'	Y
Coal							
Intermediate 1	11"	8 5/8"	2067'	New	J-55/24#	85'&1814'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	12296'	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	482	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	1760	14.5	1.1742	2066	1000'	8
Tubing							

Drillers TD (ft) 12322 Loggers TD (ft) 12322
 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'.

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS JUN 03 2019

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/15/18	12018	11740	72	Marcellus
2	6/16/16	11675	11527	72	Marcellus
3	6/16/18	11490	11323	72	Marcellus
4	6/16/18	11279	11125	72	Marcellus
5	6/16/18	11088	10941	72	Marcellus
6	6/17/18	10902	10727	72	Marcellus
7	6/17/18	10681	10538	72	Marcellus
8	6/18/18	10493	10341	72	Marcellus
9	6/18/18	10303	10161	72	Marcellus
10	6/19/18	10130	9964	72	Marcellus
11	6/19/18	9917	9770	72	Marcellus
12	6/20/18	9732	9562	72	Marcellus
13	6/21/18	9522	9373	72	Marcellus
14	6/21/18	9312	9175	72	Marcellus
15	6/21/18	9136	8989	72	Marcellus
16	6/22/18	8948	8803	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	6/15/18	69	6977	5447	4116	353020	13059	N/A
2	6/16/18	78	6611	5660	4378	213320	6769	N/A
3	6/16/18	79	6951	5468	3913	211340	6503	N/A
4	6/16/18	80	6845	5777	4744	211580	6925	N/A
5	6/16/18	78	6758	6767	4546	216280	6183	N/A
6	6/17/18	79	6217	6309	4573	223980	7100	N/A
7	6/17/18	78	6188	5683	4966	212340	6137	N/A
8	6/18/18	79	6216	5860	4756	214140	5895	N/A
9	6/18/18	78	6224	6433	5009	211980	6540	N/A
10	6/19/18	79	6197	5973	4960	212720	6239	N/A
11	6/19/18	79	6379	5553	3680	220680	6475	N/A
12	6/20/18	79	6429	6711	4107	213640	6198	N/A
13	6/21/18	69	6766	5532	4273	220340	7582	N/A
14	6/21/18	80	6586	7170	4623	213640	6783	N/A
15	6/21/18	80	6551	5748	5467	225380	6689	N/A
16	6/22/18	76	6814	5262	6038	209660	6814	N/A

Please insert additional pages as applicable.

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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 . 02467 _____;

Acreage 65 Acres _____;

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 7

47-095-02467

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:	6/1/2018
Job End Date:	6/25/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02467-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Dopey 7
Latitude:	39.43816600
Longitude:	-80.77245700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,640
Total Base Water Volume (gal):	7,310,100
Total Base Non Water Volume:	50,942



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	91.10441	
Other Chemical (s)	Listed Above	See Trade Name (s) List		7732-18-5	55.00000	0.01399	

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				Water	7732-18-5	50.00000	0.03923	
				Water	7732-18-5	55.00000	0.01409	
				Water	7732-18-5	85.00000	0.47178	
30/50 White	FTSI	Proppant			Listed Below			
NuFlo 1000LT	FTSI	Diverting agent			Listed Below			
20/40 White	FTSI	Proppant			Listed Below			
CS-1000 SI	FTSI	Scale Inhibitor			Listed Below			
ICI-3240	FTSI	Biocide			Listed Below			
FRW-1450	FTSI	Friction Reducer			Listed Below			
100 Mesh Sand	FTSI	Proppant			Listed Below			

			Petroleum Distillate	64742-47-8	55.00000	0.00148
			Guar gum	9000-30-0	55.00000	0.00148
			Phosphonic Acid, {(Dimethylamino) Methylene} Bis -	29712-30-9	5.00000	0.00128
			Methanol	67-56-1	90.00000	0.00088
			Phosphorous Acid	10294-56-1	2.00000	0.00051
			Sodium Perborate Tetrahydrate	10486-00-7	98.00000	0.00047
			Orthophosphoric acid	7664-38-2	0.75000	0.00019
			Suspending Agent	1302-78-9	5.00000	0.00013
			Quartz	14808-60-7	4.00000	0.00011
			Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00010
			Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00010
			Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00010
			undisclosed	Proprietary	2.00000	0.00009
			Isotridecanol, ethoxylated	9043-30-5	2.00000	0.00005
			Propargyl Alcohol	107-19-7	5.00000	0.00005
			N-olefins	Proprietary	3.00000	0.00003
			Sodium Metaborate	7775-19-1	1.40000	0.00001
			Hydrochloric acid	7647-01-0	0.00500	0.00000

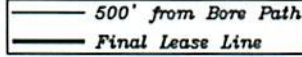
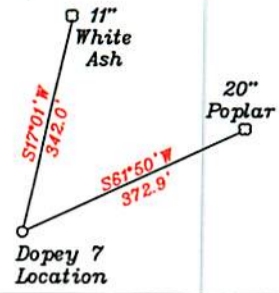
* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

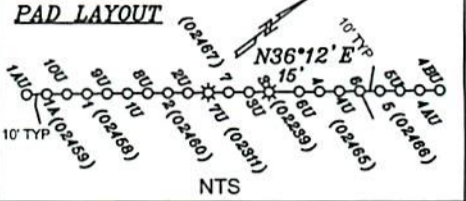
*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

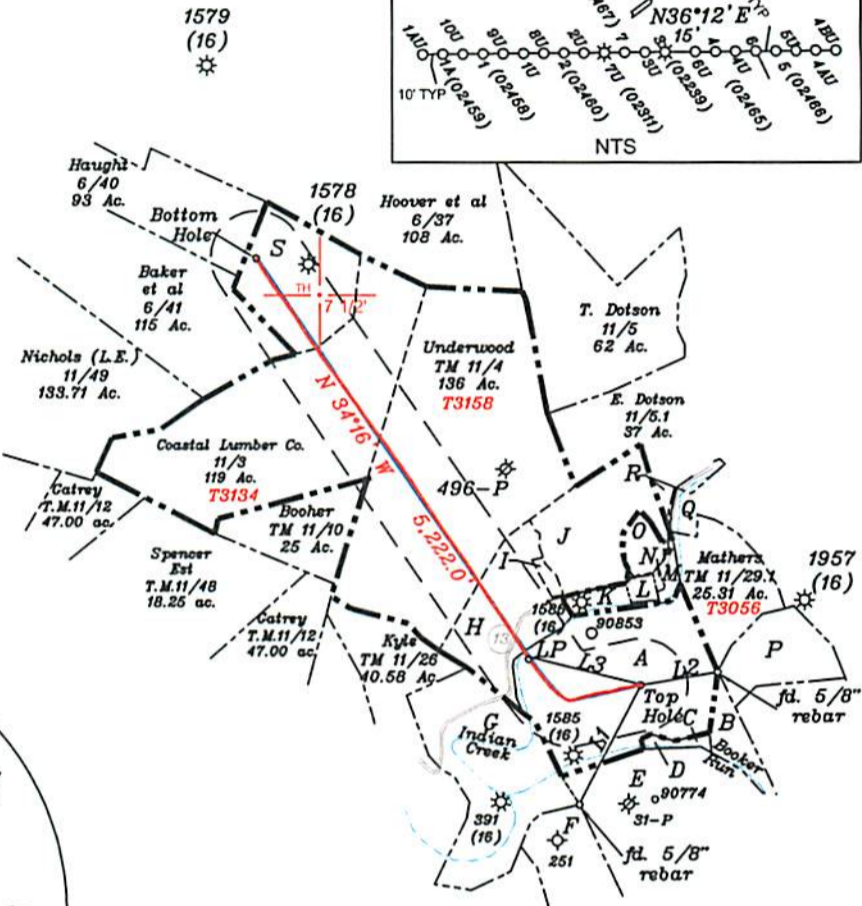
References



Top Hole	UTM NAD83(meter)-4365426.82 N. 519581.29 E
Landing Point	UTM NAD83(meter)-4365496.66 N. 519229.62 E
Bottom Hole	UTM NAD83(meter)-4366810.69 N. 518301.43 E
Top Hole	UTM NAD83(meter)-4365426.54 N. 519581.31 E
Landing Point	UTM NAD83(meter)-4365507.40 N. 519217.00 E
Bottom Hole	UTM NAD83(meter)-4366807.34 N. 518299.49 E

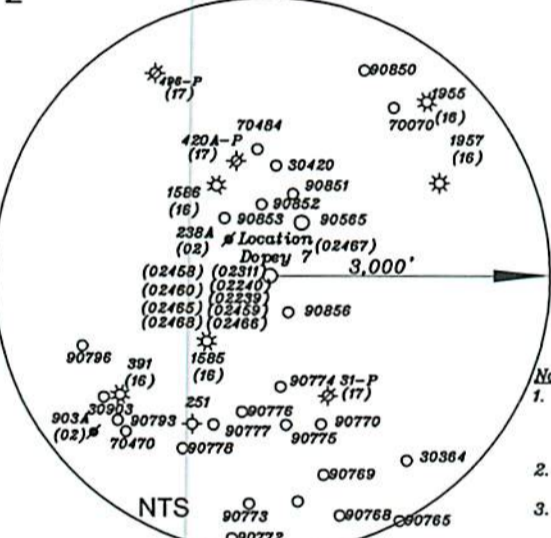


- A- Montgomery TM 11/27 65 Ac. T3055A
- B- Woodburn et al TM 11/44 6.75 Ac.
- C- Woodburn et al TM 11/45 0.755 Ac.
- D- Woodburn et al TM 11/44 1.5 Ac.
- E- Kile Estate TM 11/36 57 Ac.
- F- Davis TM 11/41 18.82 Ac.
- G- Kile Estate TM 11/36.1 50 Ac. T3055B
- H- Woodburn et al TM 11/13 30.05 Ac.
- I- Woodburn TM 11/13.1 1.2 Ac. T3052
- J- Tallman TM 11/14.3 28.631 Ac. T3052A
- K- Montgomery TM 11/14 2.18 Ac. T3052A
- L- Vincent TM 11/14.4 1.82 Ac. T3052A
- M- Ritter (Life) TM 11/29 1.63 Ac. T3052A
- N- Stillson TM 11/28 0.37 Ac.
- O- Tallman TM 11/ 14.5 5.135 Ac. T3052A
- P- Woodburn et al TM 11/43 35 Ac.
- Q- Holiday TM 11/30.2 0.56 Ac.
- R- Woodburn et al TM 11/14.1 2 Ac.
- S- Seago et al TM 11/2 32.25 Ac. RPT2



NORTH

Bottom Hole 2,805' Top Hole 7,286' LONGITUDE 80-45-00 W



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 well location. A house was found N55°54'W 614.3' from the center of the well pad.



NUMBER	DIRECTION	DISTANCE
L1	N 26°46' E	1,444.7'
L2	S 80°11' W	831.9'
L3	N 76°32' W	1,224.8'

(+) 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 Environmental Protection
 OPERATOR'S WELL NO. Dopey 7
 API WELL NO. 47 - 095 - 02467

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

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 = 6,640.2'; TMD = 12,322'
 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