

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

API 47-095-02460 County Tyler District McElroy
Quad Shirley 7.5' Pad Name Dopey Field/Pool Name _____
Farm name John & Patty Montgomery Well Number Dopey 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 4365419.31 Easting 519575.89
Landing Point of Curve Northing 4365202.89 Easting 519563.15
Bottom Hole Northing 4363988.50 Easting 520503.15

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 02/23/18 Date drilling ceased 03/07/18
Date completion activities began 05/24/18 Date completion activities ceased 06/01/18
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

RECEIVED
Office of Oil and Gas

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

MAY 7 2019

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

WV Department of
Environmental Protection

Reviewed Jes
5/29/2019

API 47-095 - 02460 Farm name John & Patty Montgomery Well number Dopey 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	30"	26"	30'	New	J55-40LB/FT		Y
Surface	17 1/2"	13 3/8"	375'	New	J55-32LB/FT	42' & 375'	Y
Coal							
Intermediate 1	11"	8 5/8"	2073'	New	J-55/24#	85' & 1818'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	12134'	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	1726	14.5	1.1744	2025	1000'	8
Tubing							

Drillers TD (ft) ¹²¹⁶⁵ _____ Loggers TD (ft) ¹²¹⁶⁵ _____

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

Plug back procedure N/A

Kick off depth (ft) ⁶¹⁵⁰ _____

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 _____

RECEIVED
Office of Oil and Gas

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

MAY 7 2019

API 47-095 - 02460

Farm name John & Patty Montgomery

Well number Dopey 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/24/2018	11954	11885	48	Marcellus
2	5/24/2018	11846	11699	72	Marcellus
3	5/24/2018	11649	11523	72	Marcellus
4	5/24/2018	11467	11337	72	Marcellus
5	2/25/2018	11285	11137	72	Marcellus
6	5/25/2018	11094	10949	72	Marcellus
7	5/26/2018	10897	10754	72	Marcellus
8	5/26/2018	10702	10561	72	Marcellus
9	5/26/2018	10508	10373	72	Marcellus
10	5/27/2018	10334	10195	72	Marcellus
11	5/28/2018	10157	9985	72	Marcellus
12	5/28/2018	9947	9788	72	Marcellus
13	5/29/2018	9754	9585	72	Marcellus
14	5/29/2018	9542	9415	72	Marcellus
15	5/29/2018	9365	9222	72	Marcellus
16	5/29/2018	9172	9014	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 (bbbls)	Amount of Nitrogen/other (units)
1	5/24/18	60.7	6201	5205	4055	171940	6770	N/A
2	5/24/18	66.5	6378	6403	4874	170460	8766	N/A
3	5/24/18	70.7	6426	6688	4796	183240	6253	N/A
4	5/25/18	68.8	6588	6986	4297	161140	6208	N/A
5	5/25/18	59.1	6675	6408	4743	177120	6127	N/A
6	5/26/18	80	6792	6792	4326	179280	5966	N/A
7	5/26/18	63.6	6231	6583	4840	180020	6280	N/A
8	5/26/18	62.9	6140	6411	4891	174360	6709	N/A
9	5/27/18	69.3	6240	6349	4281	182980	6904	N/A
10	5/27/18	77.1	6482	6681	4718	174320	6561	N/A
11	5/28/18	77.5	6270	6778	5254	174700	9177	N/A
12	5/29/18	76.5	6768	6956	4622	176460	6577	N/A
13	5/29/18	80.1	6553	7008	4266	172820	6708	N/A
14	5/29/18	70	6227	6679	4387	176360	7171	N/A
15	5/29/18	75.3	6566	7234	4882	177420	6454	N/A
16	5/30/18	86.4	6108	6538	4867	195300	7283	N/A

Please insert additional pages as applicable.

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

API 47-095 - 02460

Farm name John & Patty Montgomery

Well number Dopey 2

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	5/30/2018	8954	8847	72	Marcellus
18	5/30/2018	8782	8632	72	Marcellus
19	5/30/2018	8587	8435	72	Marcellus
20	5/30/2018	8392	8267	72	Marcellus
21	5/31/2018	8220	8069	72	Marcellus
22	5/31/2018	8018	7870	72	Marcellus
23	5/31/2018	7821	7699	72	Marcellus
24	5/31/2018	7641	7505	72	Marcellus
25	5/31/2018	7466	7313	72	Marcellus
26	5/31/2018	7267	7138	72	Marcellus
27	5/31/2018	7098	6991	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	5/30/18	68	6236	6714	5150	180180	6813	N/A
18	5/30/18	77.8	6540	6838	4615	191440	6655	N/A
19	5/30/18	78.5	6422	6703	4140	185020	6224	N/A
20	5/31/18	72	6289	7248	5271	178020	7118	N/A
21	5/31/18	80	5916	7264	4878	172100	6226	N/A
22	5/31/18	78.6	6361	6521	4250	178400	6009	N/A
23	5/31/18	78.8	6282	6539	4168	238733	6429	N/A
24	6/1/18	78.8	6196	6432	5259	203780	5984	N/A
25	6/1/18	77.8	6386	7212	4631	210900	6306	N/A
26	6/1/18	70.6	6028	6739	3799	216910	6205	N/A
27	6/1/18	71.9	6048	6943	4857	220120	6522	N/A

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

Please insert additional pages as applicable.

API 47- 095 - 02460 Farm name John & Patty Montgomery Well number Dopey 2

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6658'</u>	<u>TVD</u>	<u>12165</u> <u>MD</u>

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2750 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5000 mcfpd Oil bpd NGL bpd Water bpd GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
<u>See Attached.</u>	<u>0</u>		<u>0</u>		

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 Petteyway 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

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

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: 47-095-02460 County: Tyler
District: McElroy Well No: Dopey 2
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

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

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.

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

OIL AND GAS RECLAMATION NOTICE

TO:

Name John & Patty Montgomery

Address 107 Basil Drive Wierton, 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 - 02460 _____;

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

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

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/24/2018
Job End Date:	6/1/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02460-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	Dopey 2
Latitude:	39.43809800
Longitude:	-80.77251800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,658
Total Base Water Volume (gal):	7,577,094
Total Base Non Water Volume:	57,042



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	91.96481	
Other Chemical(s) Listed Above		See Trade Name (s) List					
			Water	7732-18-5	85.00000	0.53706	

RECEIVED
 May 7 2019
 West Virginia Department of Environmental Protection
 Office of Oil and Gas

				Water		7732-18-5	55.00000	0.01435	
				Water		7732-18-5	50.00000	0.03417	
				Water		7732-18-5	55.00000	0.01439	
10.1%-15.0% HCL	FTSI	Acid				Listed Below			
FRW-1450	FTSI	Friction Reducer				Listed Below			
30/50 White	FTSI	Proppant				Listed Below			
100 Mesh Sand	FTSI	Proppant				Listed Below			
ICI-3240	FTSI	Biocide				Listed Below			
CS-1000 SI	FTSI	Scale Inhibitor				Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor				Listed Below			

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

20/40 White	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	3.41689			
		Silica, Quartz		14808-60-7	100.00000	3.07976			
		Silica, Quartz		14808-60-7	100.00000	0.78499			
		Hydrogen Chloride		7647-01-0	15.00000	0.09478			
		Distillates (petroleum), hydrotreated light		64742-47-8	30.00000	0.02050			
		Cationic Polyacrylamide		9003-05-8	30.00000	0.02050			
		Phosphonic Acid, (Nitrilotris (methylene)) Tris		6419-19-8	35.00000	0.00916			
		Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.		533-74-4	24.00000	0.00626			
		Sodium Hydroxide		1310-73-2	23.00000	0.00600			
		Alcohols, C11-14-iso-, C13-rich, ethoxylated		78330-21-9	5.00000	0.00342			
		Phosphonic Acid, ((Dimethylamino) Methylene) Bis -		29712-30-9	5.00000	0.00131			
		Methanol		67-56-1	90.00000	0.00100			
		Phosphorous Acid		10294-56-1	2.00000	0.00052			
		Orthophosphoric acid		7664-38-2	0.75000	0.00020			
		Thiourea-formaldehyde Copolymer		68527-49-1	10.00000	0.00011			
		Alcohol Ethoxylate Surfactants		Proprietary	10.00000	0.00011			
		Fatty Acids, Tall Oil		61790-12-3	10.00000	0.00011			
		Propargyl Alcohol		107-19-7	5.00000	0.00006			
		N-olefins		Proprietary	3.00000	0.00003			
		Hydrochloric acid		7647-01-0	0.00500	0.00000			

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

- 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

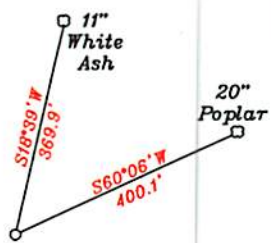
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

RECEIVED
Office of Oil and Gas

MAY 7 2019

WV Department of
Environmental Protection

References



Dopey 2 Location

- List of land parcels (A-X) with owner names, acreage, and tax map numbers.

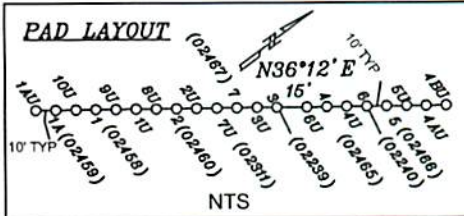
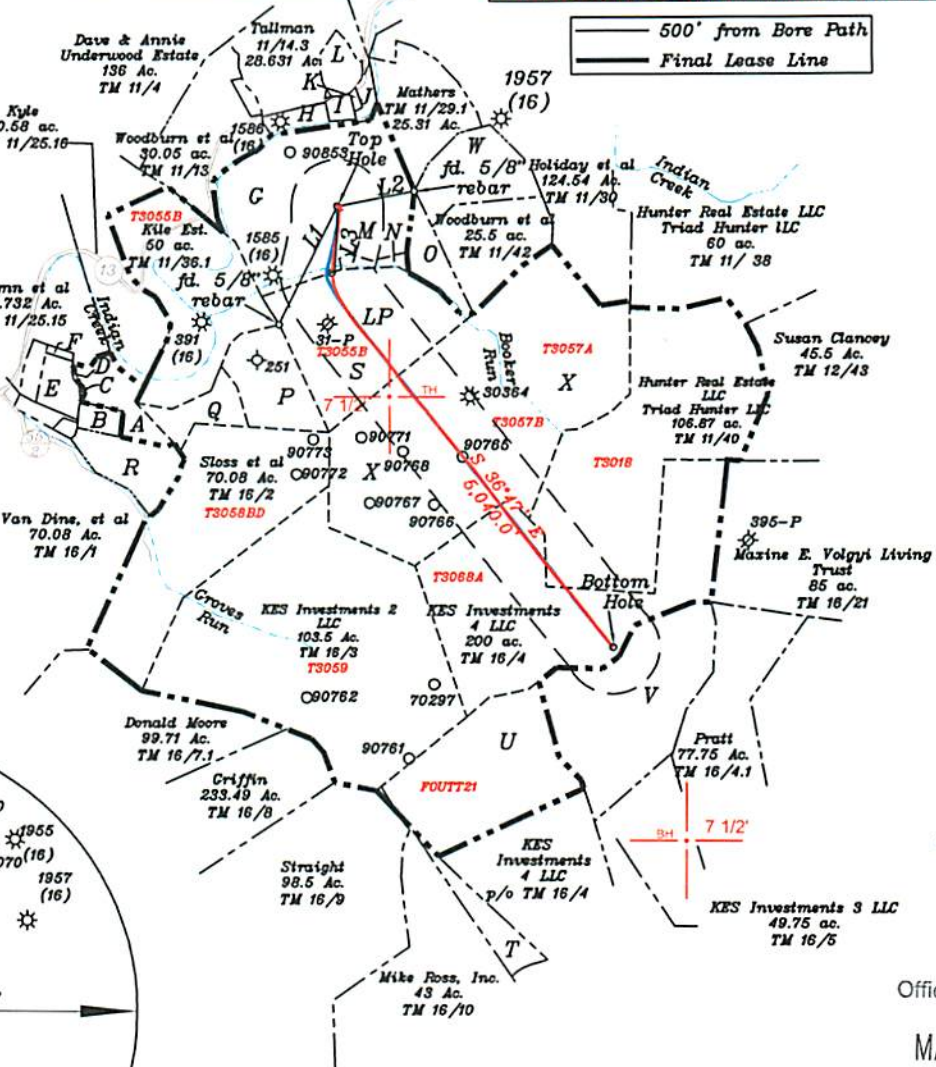
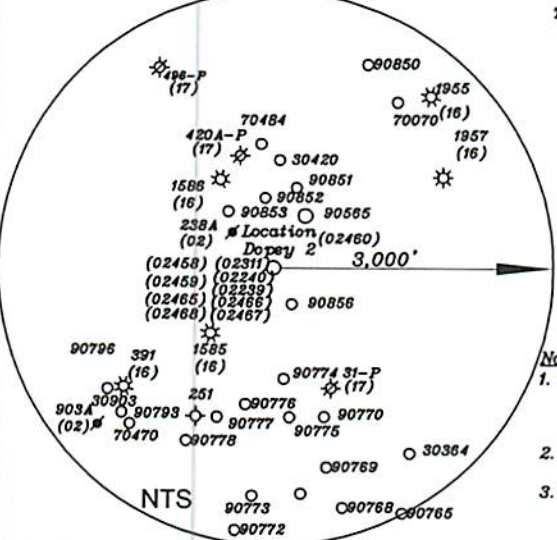


Table with well coordinates: Top Hole, Landing Point, Bottom Hole (UTM NAD83).



NORTH

Longitude 12.075', 7.309', 80-45-00 W



Notes

- Notes regarding well locations, State P lane, and water wells.

Legend for well types: AS-DRILLED LEC, PROPOSED LEC.

Table with columns: NUMBER, DIRECTION, DISTANCE.

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

File No., Drawing No., Scale, Accuracy, Proven Source of Elevation.

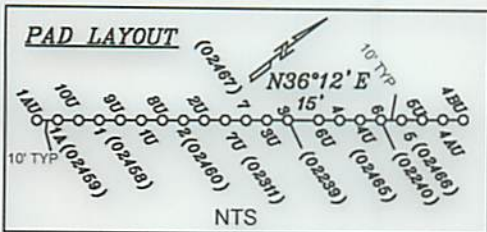
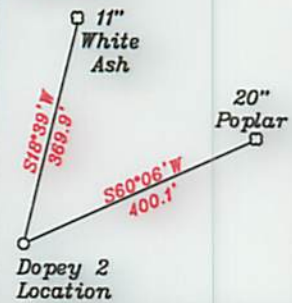
I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF...



STATE OF WEST VIRGINIA, Division of Environmental Protection, OFFICE OF OIL AND GAS. Includes well type, location, owner, and proposed work details.

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

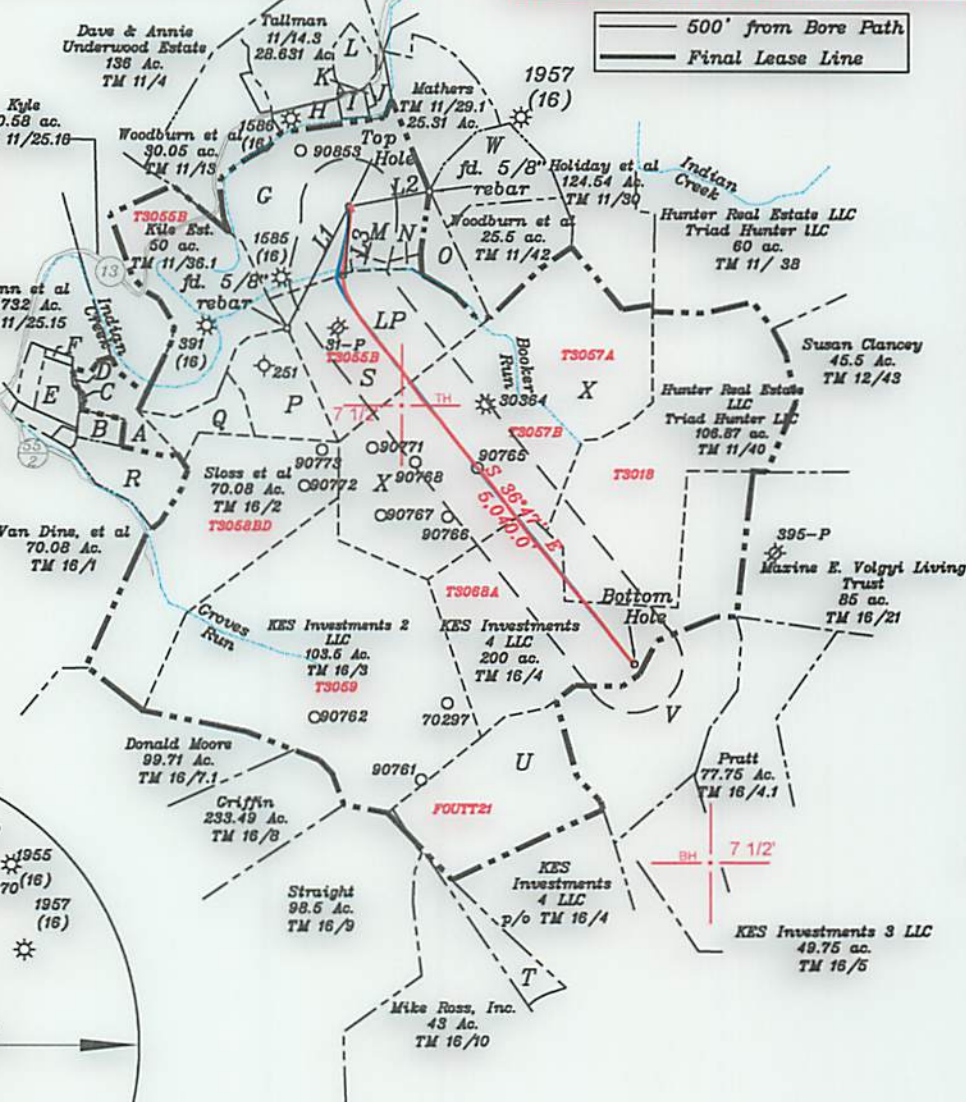
References



Top Hole	UTM NAD83(meter)-4365419.35 N. 519576.01 E
Landing Point	UTM NAD83(meter)-4365050.20 N. 519635.10 E
Bottom Hole	UTM NAD83(meter)-4363987.10 N. 520501.40 E

Top Hole	UTM NAD83(meter)-4365419.31 N. 519575.89 E
Landing Point	UTM NAD83(meter)-4365202.89 N. 519563.15 E
Bottom Hole	UTM NAD83(meter)-4363988.50 N. 520503.15 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 (L/A) TM 11/29 1.63 Ac.
 K- Stillson TM 11/20 0.37 Ac.
 L- Tallman TM 11/14.5 5.135 Ac. **T3052A**
 M- Woodburn et al TM 11/15 0.755 Ac.
 N- Woodburn et al TM 11/44 1.6 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- Kyle 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.

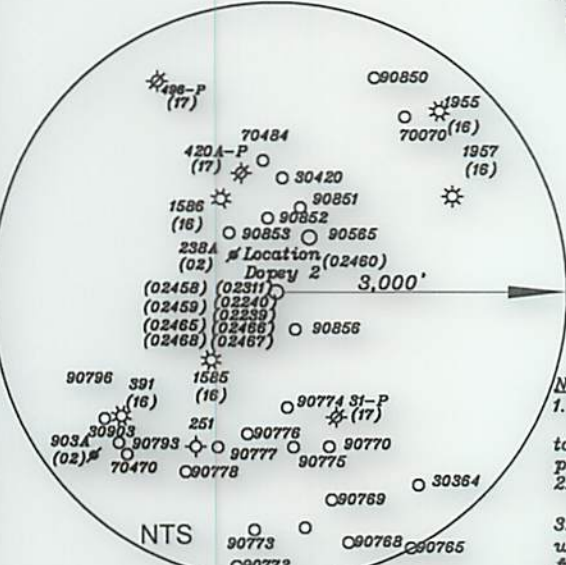


NORTH

LONGITUDE 80-45-00 W

Top Hole 7,309'

Bottom Hole 12,075'



- 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 N55°54'W 614.3' from the center of the well pad.

—	AS-DRILLED LEC
—	PROPOSED LEC

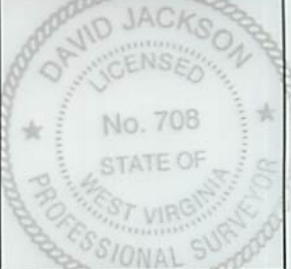
NUMBER	DIRECTION	DISTANCE
L1	N 26°32' E	1,416.6'
L2	S 78°50' W	854.1'
L3	S 04°20' W	711.5'

(+) 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 E. Jackson
 R.P.E. _____ P.S. 708



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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (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'

DATE February 12, 2019
 OPERATOR'S WELL NO. Dopey 2
 API WELL NO. 47-095-02460

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 = 6,658'; TMD = 12,165'

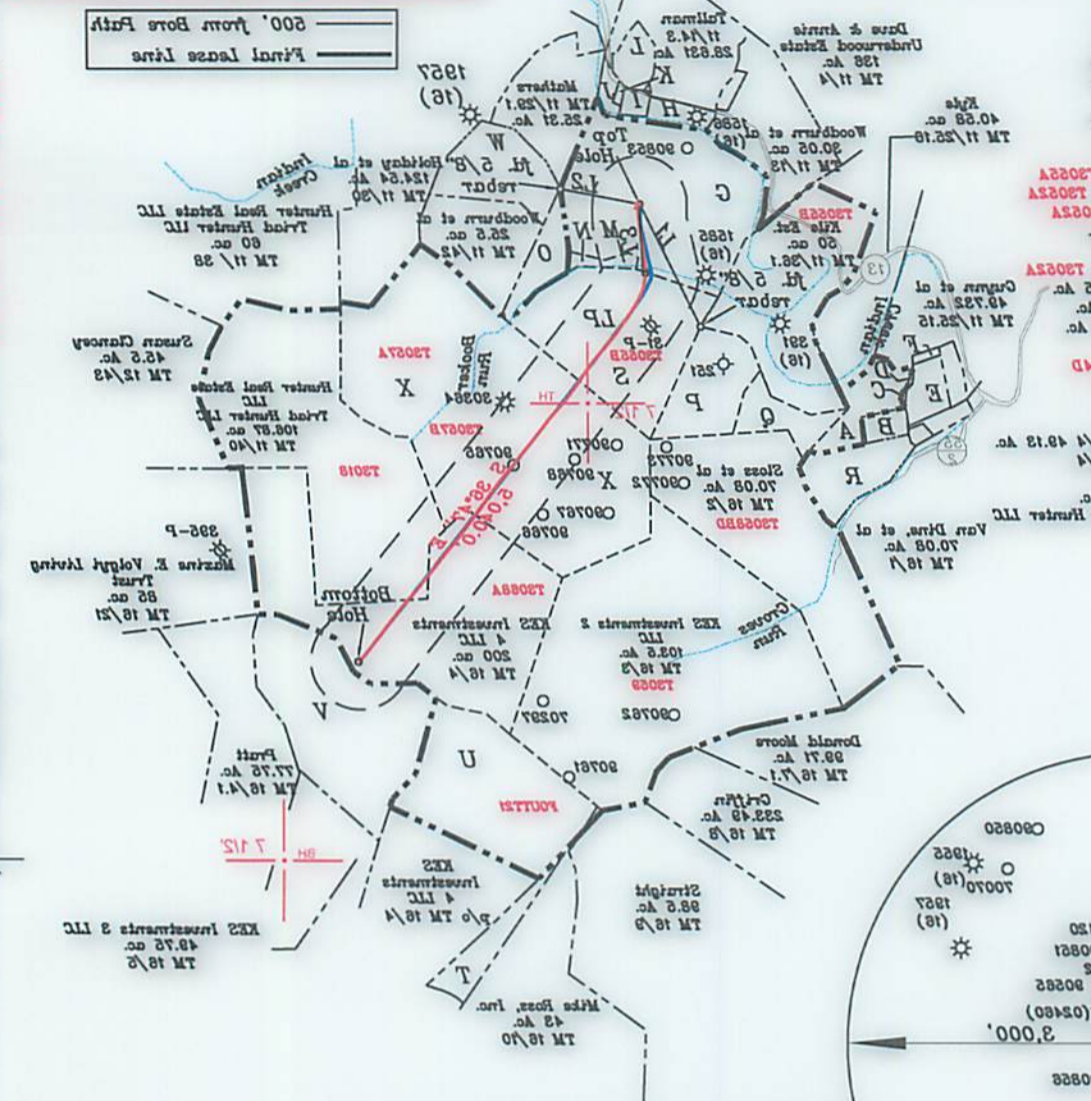
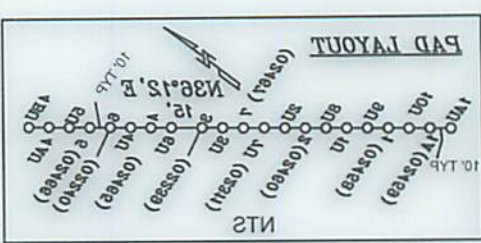
WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS 3570 Shields Hill Road, Cairo, WV 26337

200' from Bore Path

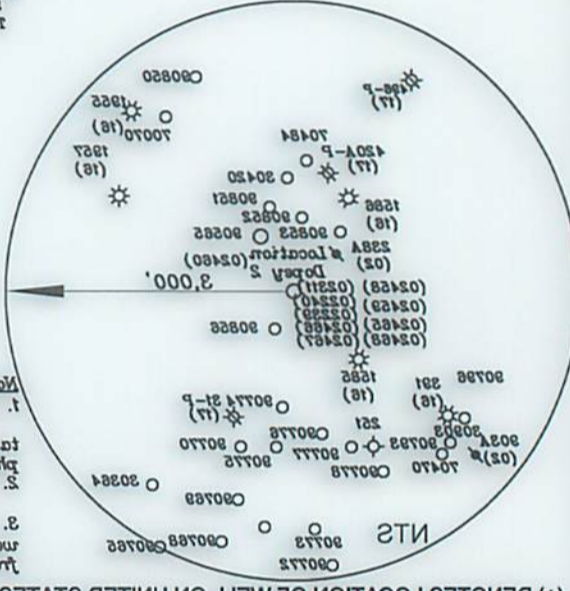
200' from Bore Path

200' from Bore Path

Top Hole	UTM NAD83 (meter) - 4382419.25 N 518272.01 E
UTM NAD83 (meter) - 4382419.25 N 518272.01 E	
Bottom Hole	UTM NAD83 (meter) - 4382505.20 N 518222.10 E
UTM NAD83 (meter) - 4382505.20 N 518222.10 E	
Top Hole	UTM NAD83 (meter) - 4382419.21 N 518272.29 E
UTM NAD83 (meter) - 4382419.21 N 518272.29 E	
Bottom Hole	UTM NAD83 (meter) - 4382505.29 N 518222.15 E
UTM NAD83 (meter) - 4382505.29 N 518222.15 E	
Bottom Hole	UTM NAD83 (meter) - 4382398.20 N 520203.15 E
UTM NAD83 (meter) - 4382398.20 N 520203.15 E	



- References
- A - L Davis TM 11/25/15 12.28 Ac.
 - B - T Davis TM 11/25/15 2.02 Ac.
 - C - Cornett TM 11/25/15 0.14 Ac.
 - D - L Davis TM 11/25/15 12.28 Ac.
 - E - Cornett TM 11/25/15 2.14 Ac.
 - F - Cornett TM 11/25/15 0.24 Ac.
 - G - Montgomery TM 11/27/15 2.18 Ac.
 - H - Montgomery TM 11/27/15 2.18 Ac.
 - I - Vintcent TM 11/27/15 1.82 Ac.
 - J - Ritter (L&P) TM 11/27/15 1.82 Ac.
 - K - Stillion TM 11/28/15 0.21 Ac.
 - L - Lallman TM 11/28/15 2.12 Ac.
 - M - Woodburn et al TM 11/28/15 0.72 Ac.
 - N - Woodburn et al TM 11/28/15 1.6 Ac.
 - O - Woodburn et al TM 11/28/15 1.6 Ac.
 - P - Davis TM 11/28/15 1.6 Ac.
 - Q - Davis TM 11/28/15 1.6 Ac.
 - R - Yeater TM 11/28/15 1.27 Ac.
 - S - KFE states TM 11/28/15 2.7 Ac.
 - T - Straight TM 11/28/15 1.2 Ac.
 - U - KES Investments 2 LLC TM 11/28/15 1.2 Ac.
 - V - KES Investments 3 LLC TM 11/28/15 1.2 Ac.
 - W - Woodburn et al TM 11/28/15 1.2 Ac.
 - X - Hunter Real Estate LLC, Triad Hunter LLC
 - TM 11/27/15 1.7 Ac.



Notes:

1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats & certain photos.
2. Ties to wells and corners are based on State P lane Grid North-WV North Zone NAD 83.
3. No water wells were found within 250' of the well location. A horse was found N56°24'W 614.3' from the center of the well pad.

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

NUMBER	DIRECTION	DISTANCE
L1	N 28°21' E	1,415.6'
L2	S 78°50' W	864.1'
L3	S 04°20' W	211.2'

AS-DRILLED L&C
PROPOSED L&C



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*
P.S. 708

FILE NO. _____
DRAWING NO. 1
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION GPS
SURVEYER UNIT

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

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
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
ACREAGE 62 ac.
COUNTY Tyler

DATE February 12, 2019
OPERATOR'S WELL NO. Dopey 2
API WELL NO. 02460
STATE COUNTY PERMIT

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 = 6,658'; TMD = 12,162'**
WELL OPERATOR **Jay Bee Oil & Gas, Inc.** DESIGNATED AGENT **Randy Broda**
ADDRESS 3570 Shields Hill Road, Carro, WV 26037