

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

No Film

API 47-095-02322 County Tyler District McElroy
Quad Shirley 7.5' Pad Name Moe Field/Pool Name Moe
Farm name Jay-Bee Production Company Well Number Moe 4
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 4,368,725.42 Easting 509,671.75
Landing Point of Curve Northing 4,368,507.24 Easting 509,207.65
Bottom Hole Northing 4,366,501.58 Easting 509,897.72

Elevation (ft) 962.1' 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

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Date permit issued 1-14-2016 Date drilling commenced 6-29-2016 Date drilling ceased 12-11-2016
Date completion activities began 2-23-2017 Date completion activities ceased 3-7-2017
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

WV Department of
Environmental Protection

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

Freshwater depth(s) ft 297.11' 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

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Reviewed WV Department of Environmental Protection

Reviewed by:
JCB
4/23/2019

WR-35
Rev. 8/23/13

API 47-095 - 02322 Farm name Jay-Bee Production Company Well number Moe 4

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	17"	16"	30'	New	J55/40lb.		Y
Surface	15"	11 3/4"	354'	New	J55/32lb	50'	Y
Coal							
Intermediate 1	11"	8 5/8"	2,147'	New	J55/24lb	1,500'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	15,051'	New	P110/17lb		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	221	15.6	1.2	265	CTS	8
Coal							
Intermediate 1	Class A	662	15.6	1.2	794	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	2,277	14.5	1.17	2664	300' from surface	8
Tubing							

Drillers TD (ft) 15,064' Loggers TD (ft) 15,064'
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,400

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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

WV Department of Environmental Protection

API 47- 095 - 02322

Farm name Jay-Bee Production Company

Well number Moe 4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2-23-17	15007	14886	48	Marcellus
2	2-23-17	14850	14724	72	Marcellus
3	2-24-17	14654	14423	72	Marcellus
4	2-24-17	14380	14219	72	Marcellus
5	2-24-17	14177	14035	72	Marcellus
6	2-25-17	13992	13860	72	Marcellus
7	2-25-17	13798	13662	72	Marcellus
8	2-25-17	13626	13436	72	Marcellus
9	2-25-17	13394	13244	72	Marcellus
10	2-26-17	13161	13013	72	Marcellus
11	2-26-17	12978	12866	72	Marcellus
12	2-26-17	12812	12647	72	Marcellus
13	2-26-17	12600	12474	72	Marcellus
14	2-26-17	12416	12248	72	Marcellus
15	2-26-17	12206	12068	72	Marcellus
16	2-27-17	12030	11865	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	2-23-17	67	7771	N/A	4296	180300	7920	N/A
2	2-23-17	68	7170	7568	5351	181800	6802	N/A
3	2-24-17	69	7713	8737	5140	180800	7326	N/A
4	2-24-17	70	7114	7872	4883	180200	12010	N/A
5	2-24-17	69	6959	7038	5036	181500	6673	N/A
6	2-25-17	69	6830	7136	4898	181000	6432	N/A
7	2-25-17	70	6897	8349	4995	177600	11074	N/A
8	2-25-17	70	6843	7685	4893	179500	6981	N/A
9	2-25-17	70	6940	8163	5124	179700	9490	N/A
10	2-26-17	68	6781	7517	4784	176400	6791	N/A
11	2-26-17	71	6567	6285	4896	180000	6880	N/A
12	2-26-17	72	6625	8091	4784	181000	6544	N/A
13	2-26-17	71	6527	8182	5034	183500	6761	N/A
14	2-26-17	69	7092	8256	4631	177000	6904	N/A
15	2-26-17	71	6469	6703	4987	183200	6305	N/A
16	2-27-17	70	6366	6430	4920	185900	6381	N/A

Please insert additional pages as applicable.

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API 47- 095 - 02322 Farm name Jay-Bee Production Company Well number Moe 4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	2-27-17	11815	11672	72	Marcellus
18	2-27-17	11632	11498	72	Marcellus
19	2-27-17	11456	11256	72	Marcellus
20	2-27-17	11169	10995	72	Marcellus
21	2-27-17	10953	10822	72	Marcellus
22	2-28-17	10770	10642	72	Marcellus
23	2-28-17	10576	10451	72	Marcellus
24	2-28-17	10394	10232	72	Marcellus
25	2-28-17	10181	10040	72	Marcellus
26	2-28-17	9992	9848	72	Marcellus
27	3-1-17	9798	9672	72	Marcellus
28	3-1-17	9630	9494	72	Marcellus
29	3-1-17	9446	9280	72	Marcellus
30	3-1-17	9240	9052	72	Marcellus
31	3-1-17	9002	8884	72	Marcellus
32	3-2-17	8840	8674	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	2-27-17	73	6352	6409	4676	184200	6283	N/A
18	2-27-17	71	6551	7211	4881	179300	6572	N/A
19	2-27-17	70	6564	7249	4837	181000	6283	N/A
20	2-27-17	70	6649	7952	5167	190100	6493	N/A
21	2-27-17	72	6533	6289	4728	183200	6021	N/A
22	2-28-17	72	6377	5827	4828	187500	5957	N/A
23	2-28-17	72	6591	6628	4601	187800	6506	N/A
24	2-28-17	71	6494	6787	4846	189100	5586	N/A
25	2-28-17	70	6408	6315	5004	181900	6258	N/A
26	2-28-17	74	6590	5375	4905	181900	5824	N/A
27	3-1-17	70	6438	5465	4852	177700	5943	N/A
28	3-1-17	73	6503	5575	5066	182100	5969	N/A
29	3-1-17	70	6304	5933	4948	183400	6196	N/A
30	3-1-17	70	6213	6337	4977	175200	6043	N/A
31	3-1-17	70	6241	6101	4627	182900	5922	N/A
32	3-2-17	71	6262	6399	4965	180100	5800	N/A

Please insert additional pages as applicable.

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API 47- 095 - 02322 Farm name Jay-Bee Production Company Well number Moe 4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	3-5-17	8576	8455	72	Marcellus
34	3-5-17	8408	8283	72	Marcellus
35	3-6-17	8226	8056	72	Marcellus
36	3-6-17	8016	7878	72	Marcellus
37	3-6-17	7832	7702	72	Marcellus
38	3-6-17	7659	7490	72	Marcellus
39	3-7-17	7438	7278	72	Marcellus
40	3-7-17	7242	7078	72	Marcellus
41	3-7-17	7032	6878	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)
33	3-5-17	72	6350	6772	5089	186600	5856	N/A
34	3-5-17	73	6327	5877	5430	185800	5958	N/A
35	3-6-17	74	6182	5851	5144	181000	5854	N/A
36	3-6-17	70	6069	6452	5164	175500	5670	N/A
37	3-6-17	71	6179	6452	5164	183500	5973	N/A
38	3-6-17	73	6345	6485	5315	183400	5803	N/A
39	3-7-17	71	6321	6057	4989	187200	5614	N/A
40	3-7-17	72	5487	5116	4551	181800	5771	N/A
41	3-7-17	70	4834	4669	3662	183900	6100	N/A

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Please insert additional pages as applicable.

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Rev. 8/23/13

API 47- 095 - 02322 Farm name Jay-Bee Production Company Well number Moe 4

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6,430	TVD 15014 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas 8500 mcfpd Oil 100 bpd NGL N/A bpd Water 100 bpd GAS MEASURED BY Estimated Orifice Pilot

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

Please insert additional pages as applicable.

Drilling Contractor Nomac
Address 3400 South Radio Road City El Reno State OK Zip 73036

Logging Company Stratagraph Northeast, Inc.
Address 116 Ellsworth Ave. Marietta City Marietta State OH Zip 45750

Cementing Company Baker Hughes
Address 717 17th Street Suite 2000 City Denver State CO Zip 80202

Stimulating Company Producers Service Corporation
Address 107 South Graham St. City Zanesville State OH Zip 43822

Please insert additional pages as applicable.

Completed by Tyler DuFour
Signature *Tyler DuFour* Title Office Manager Date 4/3/19

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WV Dept. of Environmental Protection
Telephone: 628-3111

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: 47-095-02322 County: Tyler
District: McElroy Well No: Moe 4
Farm Name: Jay-Bee Production Company
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

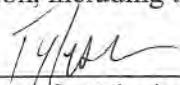
1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) N If yes, who? n/a and place a four (4) on line 7.
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) N If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value 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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Office of Oil and Gas

Name of Principal Exec. Officer: Tyler DuFour
Title of Officer: Office Manager
Date Completed: 4/3/19

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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.

WV Department of
Environmental Protection

OIL AND GAS RECLAMATION NOTICE

TO:

Name Jay Bee Production Company

Address 3570 Shields Hill Road, Cairo WV 26337

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 - 02322 _____;

Acreage 286.03 _____;

Watershed Middle Island Creek _____;

District McElroy _____;

County Tyler _____;

Public Road Access _____;

Generally used farm name Jay-Bee Production Company _____.

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

Moe 4 47-095-02322

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
MISC. RED ROCK & SHALES	0	1650
LIME	1650	1750
INJUN	1750	1867
SHALE	1867	2214
GORDON STRAY	2214	2234
SHALE	2234	2430
GORDON	2430	2460
SHALE	2460	2739
BAYARD	2739	2748
SHALE	2748	3077
WARREN	3077	3175
SHALE	3175	3411
BALLTOWN	3411	3574
SHALE	3574	4012
2ND RILEY	4012	4120
SHALE	4120	4271
3RD RILEY	4271	4312
SHALE	4312	4369
BENSON	4369	4372
SHALE	4372	4614
ALEXANDER	4614	4785
SHALE	4785	5030
ELK	5030	5078
SHALE	5078	5305
HAMILTON	5305	5479
SHALE	5479	6135
UPPER MARCELLUS	6135	6329
PARCELL LIME	6329	6339
SHALE	6339	6364
LOWER MARCELLUS	6364	

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APR 07 2019
WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/23/2017
Job End Date:	3/7/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02322-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	MOE 4
Latitude:	39.46805500
Longitude:	-80.88756200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,395
Total Base Water Volume (gal):	11,421,858
Total Base Non Water Volume:	0



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 WV Department of Environmental Protection
 Office of Oil and Gas

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	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00000	92.26415	None
Sand (Proppant)	Producers Service Corp	Proppant	Silica Substrate	14808-60-7	100.00000	7.22651	None
15% IC Acid	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.06310	None
SUPERSLIK	Producers Service Corp	Friction Reducer	Distillates	64742-47-8	18.00000	0.01016	None
SCALECLEAR 112	Producers Service Corp	Scale Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00928	None
MB-7530	Producers Service Corp	Biocide	Tetrahydro-3, 5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4	24.00000	0.00218	None
			Sodium Hydroxide	1310-73-2	4.00000	0.00036	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Sodium Hydroxide	1310-73-2	4.00000	0.00036	

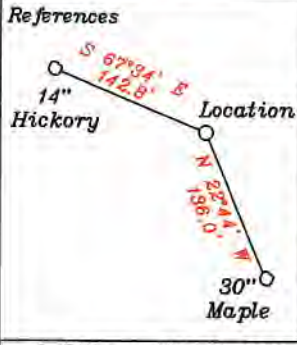
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

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

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

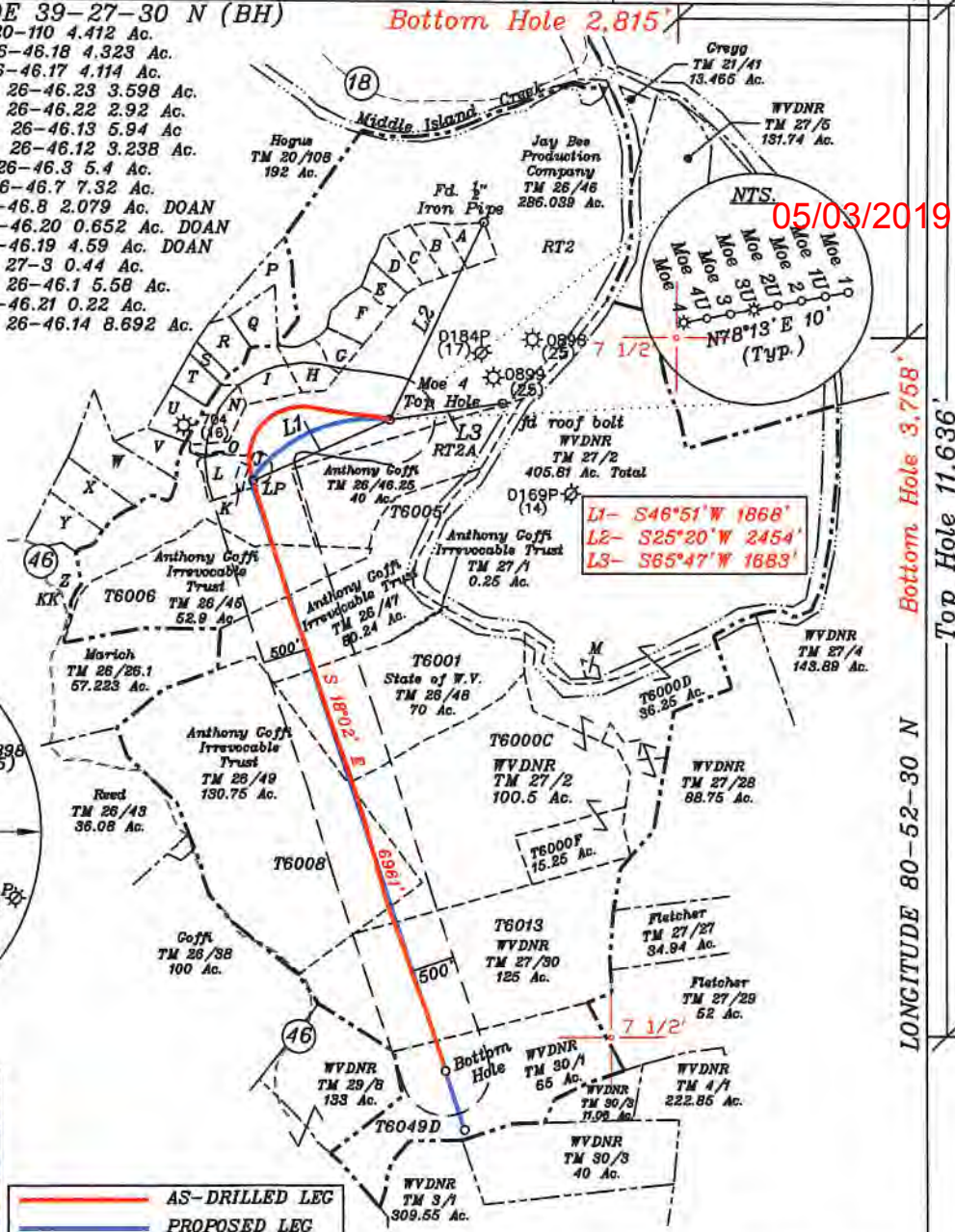
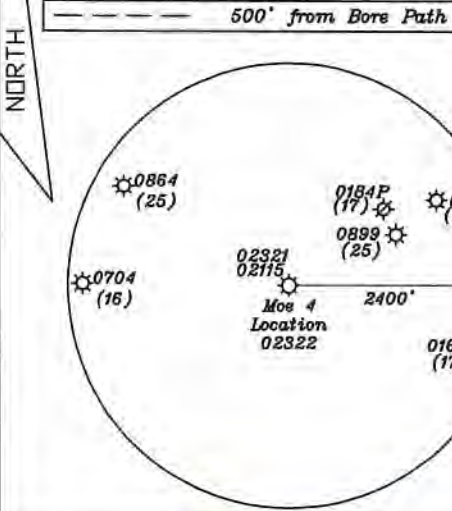
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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Environmental Protection



- LATITUDE 39-27-30 N (BH)
- A-Sulser TM. 20-110 4.412 Ac.
 - B-Boggs TM. 26-46.18 4.323 Ac.
 - C-Boggs TM. 26-46.17 4.114 Ac.
 - D-Johnson TM. 26-46.23 3.598 Ac.
 - E-Johnson TM. 26-46.22 2.92 Ac.
 - F-Holliday TM. 26-46.13 5.94 Ac.
 - G-Holliday TM. 26-46.12 3.238 Ac.
 - H-Gibson TM. 26-46.3 5.4 Ac.
 - I-Patera TM. 26-46.7 7.32 Ac.
 - J-Peek TM. 26-46.8 2.079 Ac. DOAN
 - K-Peek TM. 26-46.20 0.652 Ac. DOAN
 - L-Peek TM. 26-46.19 4.59 Ac. DOAN
 - M-WVDNR TM. 27-3 0.44 Ac.
 - N-Shrader TM. 26-46.1 5.58 Ac.
 - O-Peek TM. 26-46.21 0.22 Ac.
 - P-Jay Bee TM. 26-46.14 8.692 Ac.

- Q-Pittman TM. 26-46.2 5.135 Ac.
- R-Johnson TM. 26-46.9 5 Ac.
- S-Patera TM. 26-46.6 1.702 Ac.
- T-Patera TM. 26-46.15 3.722 Ac.
- U-JayBee TM. 26-46.16 5.094 Ac.
- V-Ison TM. 26-46.10 4.98 Ac.
- W-Doty TM. 26-46.5 13.14 Ac.
- X-Kanz TM. 26-46.4 8.1 Ac.
- Y-Watson TM. 26-46.11 6.43 Ac.
- Z-JayBee TM. 26-46.24 3.059 Ac.
- KK-JayBee TM. 26-19.9 1.496 Ac.



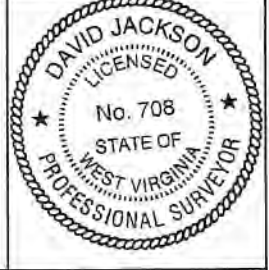
Proposed	
Top Hole	UTM NAD 83(Meters)- 4368725.31 N, 509871.72 E
Landing Point	UTM NAD 83(Meters)-4368507.88 N, 509200.99 E
Bottom Hole	UTM NAD 83(Meters)-4366302.35 N, 509967.49 E
As Drilled	
Top Hole	UTM NAD 83(Meters)-4368725.42 N, 509671.75 E
Landing Point	UTM NAD 83(Meters)-4368507.24 N, 509207.65 E
Bottom Hole	UTM NAD 83(Meters)-4366501.58 N, 509897.72 E

- 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. No dwellings or buildings were found within 625' from the center of the proposed pad. No perennial stream is located within 100' of LOD. No producing trout stream located within 300' of LOD.
- (+) 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. _____ L.L.S. 708



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

DATE June 01, 2017
 OPERATOR'S WELL NO. Moe 4
 API WELL NO. As Drilled

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

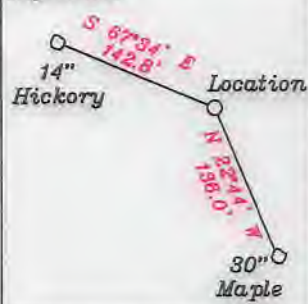
LOCATION: ELEVATION 962.1' WATER SHED Middle Island Creek
 DISTRICT Ellsworth COUNTY Tyler
 QUADRANGLE Middlebourne 7 1/2'

SURFACE OWNER Jay Bee Production Company ACREAGE 286.03 ac.
 OIL & GAS ROYALTY OWNER Ridgetop Capital LP and Ridgetop Capital II, LP LEASE ACREAGE 286.03 ac.
 LEASE NO. RT2

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

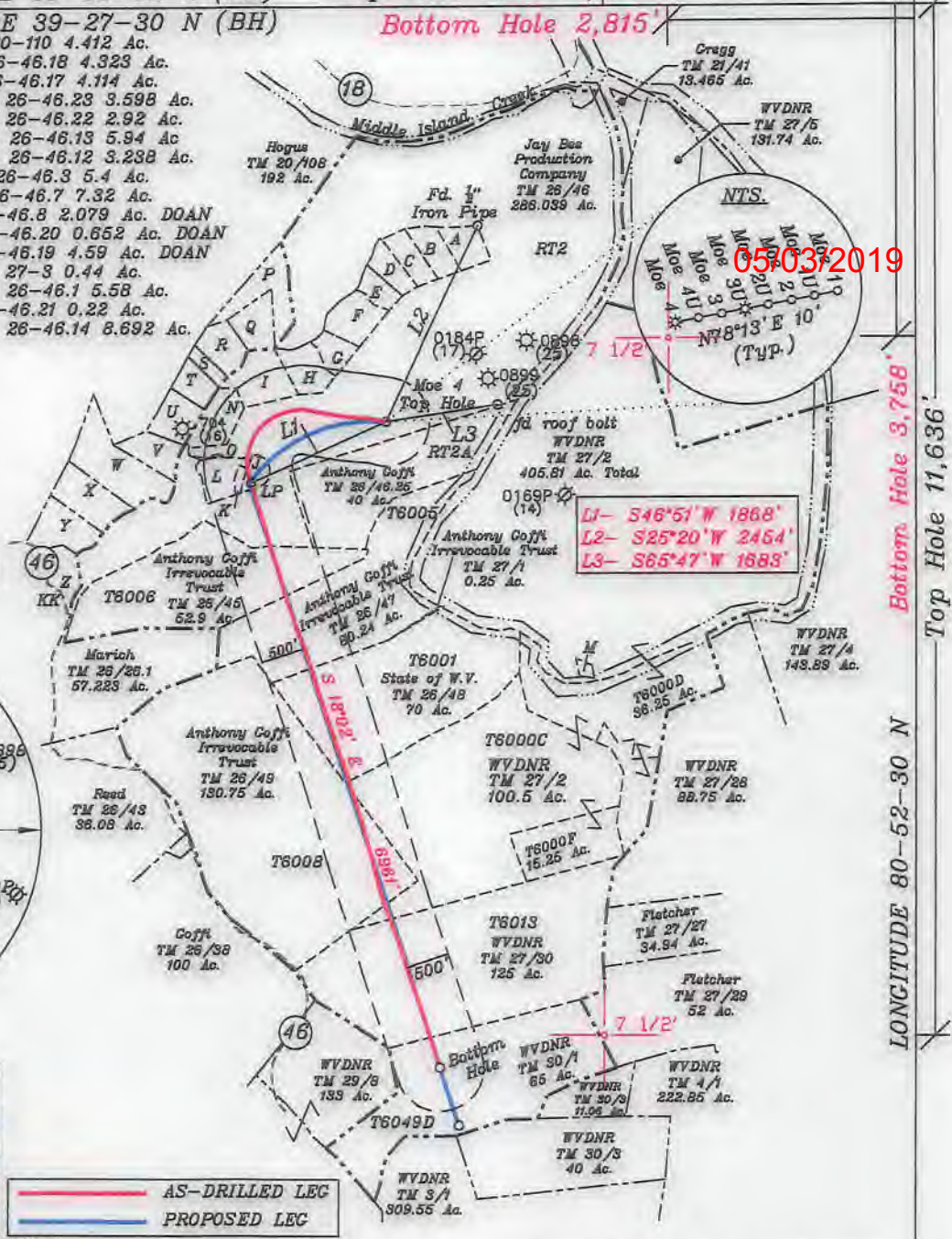
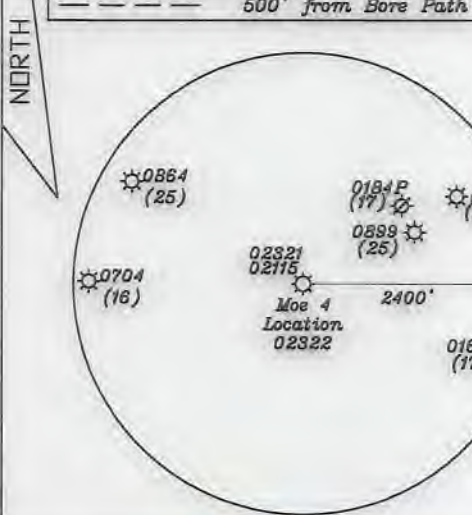
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD= 6,421' TMD= 6,421'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

References



- A-Sulser TM. 20-110 4.412 Ac.
B-Boggs TM. 26-46.18 4.323 Ac.
C-Boggs TM. 26-46.17 4.114 Ac.
D-Johnson TM. 26-46.23 3.598 Ac.
E-Johnson TM. 26-46.22 2.92 Ac.
F-Holliday TM. 26-46.13 5.94 Ac.
G-Holliday TM. 26-46.12 3.238 Ac.
H-Gibson TM. 26-46.3 5.4 Ac.
I-Patera TM. 26-46.7 7.32 Ac.
J-Peek TM. 26-46.8 2.079 Ac. DOAN
K-Peek TM. 26-46.20 0.652 Ac. DOAN
L-Peek TM. 26-46.19 4.59 Ac. DOAN
M-WVDNR TM. 27-8 0.44 Ac.
N-Shrader TM. 26-46.1 5.58 Ac.
O-Peek TM. 26-46.21 0.22 Ac.
P-Jay Bee TM. 26-46.14 8.692 Ac.
Q-Pittman TM. 26-46.2 5.135 Ac.
R-Johnson TM. 26-46.9 5 Ac.
S-Patera TM. 26-46.6 1.702 Ac.
T-Patera TM. 26-46.15 3.722 Ac.
U-JayBee TM. 26-46.16 5.094 Ac.
V-Ison TM. 26-46.10 4.98 Ac.
W-Doty TM. 26-46.5 13.14 Ac.
X-Kanz TM. 26-46.4 8.1 Ac.
Y-Walton TM. 26-46.11 6.43 Ac.
Z-JayBee TM. 26-46.24 3.059 Ac.
KK-JayBee TM. 26-19.9 1.496 Ac.

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Proposed
Top Hole UTM NAD 83(Meters)- 4368725.31 N, 509871.72 E
Landing Point UTM NAD 83(Meters)-4368507.88 N, 509200.99 E
Bottom Hole UTM NAD 83(Meters)-4366302.35 N, 509967.49 E
AsDrilled
Top Hole UTM NAD 83(Meters)-4368725.42 N, 509671.75 E
Landing Point UTM NAD 83(Meters)-4368507.24 N, 509207.65 E
Bottom Hole UTM NAD 83(Meters)-4366501.58 N, 509897.72 E

AS-DRILLED LEG
PROPOSED LEG

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. No dwellings or buildings were found within 625' from the center of the proposed pad. No perennial stream is located within 100' of LOD. No producing trout stream located within 300' of LOD.
(<) 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. L.L.S. 708

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Division of Environmental Protection
OFFICE OF OIL AND GAS
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STATE COUNTY PERMIT
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DISTRICT Ellsworth COUNTY Tyler
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ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337