

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

API 47-095-02321 County Tyler District McElroy  
Quad Shirley 7.5' Pad Name Moe Field/Pool Name Moe  
Farm name Jay-Bee Production Company Well Number Moe 3U  
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 4,368,727.25 Easting 509,680.66  
Landing Point of Curve Northing 4,368,458.16 Easting 509,482.61  
Bottom Hole Northing 4,366,452.48 Easting 510,177.50

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 5-12-2016 Date drilling commenced 7-11-2016 Date drilling ceased 1-12-2017  
Date completion activities began 3-8-2017 Date completion activities ceased 3-30-2017  
Verbal plugging (Y/N) N Date permission granted N/A

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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

Reviewed

Reviewed by:  
[Signature]  
4/23/2019

API 47-095 - 02321 Farm name Jay-Bee Production Company Well number Moe 3U

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	85 lb./ft		Y
Surface	24"	20"	351'	New	94 lb./ft	50'	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,185'	New	61 lb./ft	400', 1,500'	Y
Intermediate 2	12 1/4"	9 5/8"	9,145'	New	47 lb./ft		Y
Intermediate 3							
Production	8 1/2"	5 1/2"	18,828'	New	23 lb./ft		Y
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	413	15.6	1.2	496	CTS	8
Coal							
Intermediate 1	Class A	Lead 1112 - Tail 466	Lead 15.0 - Tail 15.6	Lead 1.3 - Tail 1.19	Lead 1443 - Tail 550	CTS	8
Intermediate 2	Class A	Lead 1393 - Tail 159	Lead 12.8 - Tail 15	Lead 2.17 - Tail 1.34	Lead 2908 - Tail 197	1118' from surface	8
Intermediate 3							
Production	Class H	3654	15.6	1.18	4211	480' from surface	8
Tubing							

Drillers TD (ft) 18,835' Loggers TD (ft) 18,835'  
 Deepest formation penetrated Point Pleasant Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 10547'

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 \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WV Department of Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 095 - 02321 Farm name Jay-Bee Production Company Well number Moe 3U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	3-8-17	18712	18605	48	Point Pleasant
2	3-8-17	18548	18430	72	Point Pleasant
3	3-12-17	18362	18228	72	Point Pleasant
4	3-12-17	18164	18006	72	Point Pleasant
5	3-13-17	17927	17786	72	Point Pleasant
6	3-13-17	17734	17583	72	Point Pleasant
7	3-19-17	17533	17387	72	Point Pleasant
8	3-19-17	17350	17223	72	Point Pleasant
9	3-23-17	17176	17014	72	Point Pleasant
10	3-23-17	16974	16808	72	Point Pleasant
11	3-24-17	16758	16616	72	Point Pleasant
12	3-24-17	16569	16396	72	Point Pleasant
13	3-24-17	16342	16202	72	Point Pleasant
14	3-24-17	16160	16000	72	Point Pleasant
15	3-25-17	15961	15783	72	Point Pleasant
16	3-25-17	15742	15604	72	Point Pleasant

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	3-8-17	70	10352	11533	7122	180100	7026	N/A
2	3-8-17	70	10938	10681	7692	179700	6172	N/A
3	3-12-17	70	10685	10862	7363	200900	6278	N/A
4	3-12-17	68	11667	11091	7236	201200	6213	N/A
5	3-13-17	77	10996	11230	7783	202100	5687	N/A
6	3-13-17	64	11298	11472	7439	189000	13299	N/A
7	3-19-17	45	12125	12298	8402	115300	5068	N/A
8	3-19-17	69	10623	11006	7600	180100	5191	N/A
9	3-23-17	69	10594	11160	7622	167500	4821	N/A
10	3-23-17	56	11453	11501	7689	152800	5236	N/A
11	3-24-17	68	11591	11825	7704	174300	3724	N/A
12	3-24-17	71	10966	11383	7307	175300	4803	N/A
13	3-24-17	72	10850	11593	7601	152400	4676	N/A
14	3-24-17	67	10700	10770	7310	181300	3451	N/A
15	3-25-17	66	11020	11380	7254	192600	3896	N/A
16	3-25-17	70	10678	11058	7543	180900	3668	N/A

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Please insert additional pages as applicable.

API 47- 095 - 02321 Farm name Jay-Bee Production Company Well number Moe 3U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	3-25-17	15546	15412	72	Point Pleasant
18	3-25-17	15361	15186	72	Point Pleasant
19	3-26-17	15145	14980	72	Point Pleasant
20	3-26-17	14940	14794	72	Point Pleasant
21	3-26-17	14747	14586	72	Point Pleasant
22	3-27-17	14539	14376	72	Point Pleasant
23	3-27-17	14330	14182	72	Point Pleasant
24	3-27-17	14136	13990	72	Point Pleasant
25	3-27-17	13934	13806	72	Point Pleasant
26	3-27-17	13742	13593	72	Point Pleasant
27	3-28-17	13546	13394	72	Point Pleasant
28	3-28-17	13352	13198	72	Point Pleasant
29	3-28-17	13156	12978	72	Point Pleasant
30	3-29-17	12930	12779	72	Point Pleasant
31	3-29-17	12716	12568	72	Point Pleasant
32	3-29-17	12520	12384	72	Point Pleasant

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Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE APR 07 REC'D

Complete a separate record for each stimulation stage.

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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	3-25-17	75	10573	10687	7788	150400	3969	N/A
18	3-25-17	70	10759	11366	7529	189400	3825	N/A
19	3-26-17	73	11158	11050	7591	190200	3581	N/A
20	3-26-17	60	11252	11620	8174	66500	5746	N/A
21	3-26-17	69	11015	11575	7864	193700	4010	N/A
22	3-27-17	74	10771	12228	7606	203500	4541	N/A
23	3-27-17	74	11061	12015	7907	180300	3886	N/A
24	3-27-17	75	11071	12078	7546	182000	3782	N/A
25	3-27-17	76	11200	12161	7696	180000	3692	N/A
26	3-27-17	73	10966	11683	7559	151700	3799	N/A
27	3-28-17	73	10618	11569	7626	180200	3407	N/A
28	3-28-17	75	11206	11428	7553	185500	4593	N/A
29	3-28-17	75	10750	10991	7492	170000	3187	N/A
30	3-29-17	77	10998	10434	7598	175100	3255	N/A
31	3-29-17	76	10924	10814	7661	179800	2931	N/A
32	3-29-17	71	11000	11799	7427	179500	4009	N/A

Please insert additional pages as applicable.





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: 47-095-02321 County: Tyler  
District: McElroy Well No: Moe 3U  
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

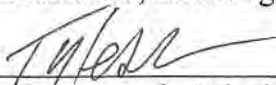
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Name of Principal Exec. Officer: Tyler DuFour  
Title of Officer: Office Manager  
Date Completed: 4/3/19

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.

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 - 02321 ;  
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 3U 47-095-02321

<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	5190
HAMILTON	5190	5364
SHALE	5364	6020
UPPER MARCELLUS	6020	6327
PARCELL LIME	6327	6362
SHALE	6362	6368
LOWER MARCELLUS	6368	6450
ONONDAGA	6450	6479
HUNTERSVILLE CHERT	6479	6649
ORISKANY	6649	6693

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HELDERBERG	6693	7127
BASS ISLAND	7127	7187
SALINA	7187	8157
LOCKPORT	8157	8537
ROCHESTER	8537	8977
PACKER SHELL	8977	9025
CLINTON	9025	9172
QUEENSTON	9172	10000
REEDSVILLE	10000	11052
UTICA	11052	11212
POINT PLEASANT	11212	11263

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# Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	3/8/2017
Job End Date:	3/30/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02321-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	MOE 3U
Latitude:	39.46807300
Longitude:	-80.88745800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,286
Total Base Water Volume (gal):	8,536,752
Total Base Non Water Volume:	0

## 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	92.09833	None
Sand (Proppant)	Producers Service Corp	Proppant	Silica Substrate	14808-60-7	100.00000	4.05178	None
KRYPTOSPHERE LD35	Producers Service Corp	Ceramic Proppant	Ceramic Materials	66402-68-4	100.00000	2.80526	None
15% IC Acid	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.13859	None
STIMLUBE F	Producers Service Corp	Friction Reducer	Petroleum Distallates	64742-47-8	30.00000	0.01936	None
			Alcohols, ethoxylated	68551-12-2	3.10000	0.00200	None
			Alcohols, ethoxylated	68439-50-9	3.10000	0.00200	None
			Alcohols, ethoxylated	68002-97-1	3.10000	0.00200	None
PRO GEL 4.0L	Producers Service Corp	Gel	Guar Gum Blend	9000-30-0	100.00000	0.02259	None

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ENVIRONMENTAL PROTECTION

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SCALECLEAR 112	Producers Service Corp	Scale Inhibitor					
			Ethylene Glycol	107-21-1	40.00000	0.00920	None
BIOCLEAR 1430	Producers Service Corp	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00211	None
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00053	None
			Dimethylamine	68439-70-3	0.50000	0.00005	None
PRO BREAK 4	Producers Service Corp	Gel Breaker					
			Surcose	57-50-1	46.00000	0.00001	None
			Ethylene Glycol	107-21-1	14.00000	0.00000	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					
			Alcohols, ethoxylated	68551-12-2	3.10000	0.00200	
			Alcohols, ethoxylated	68439-50-9	3.10000	0.00200	
			Alcohols, ethoxylated	68002-97-1	3.10000	0.00200	
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00053	
			Dimethylamine	68439-70-3	0.50000	0.00005	
			Ethylene Glycol	107-21-1	14.00000	0.00000	

\* 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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LATITUDE 39-30-00 N (TH)

Top Hole 3,516'

LATITUDE 39-27-30 N (BH)

Bottom Hole 1,897'

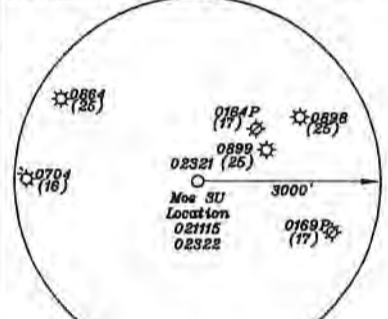
References



Proposed	
Top Hole	UTM NAD 83(Meters)- 4368727.33 N, 509680.64 E
Landing Point	UTM NAD 83(Meters)- 4368806.71 N, 509435.13 E
As Drilled	
Top Hole	UTM NAD 83(Meters)- 4368727.25 N, 509680.66 E
Landing Point	UTM NAD 83(Meters)- 4368458.18 N, 509482.61 E
Bottom Hole	UTM NAD 83(Meters)- 4368452.48 N, 510177.50 E

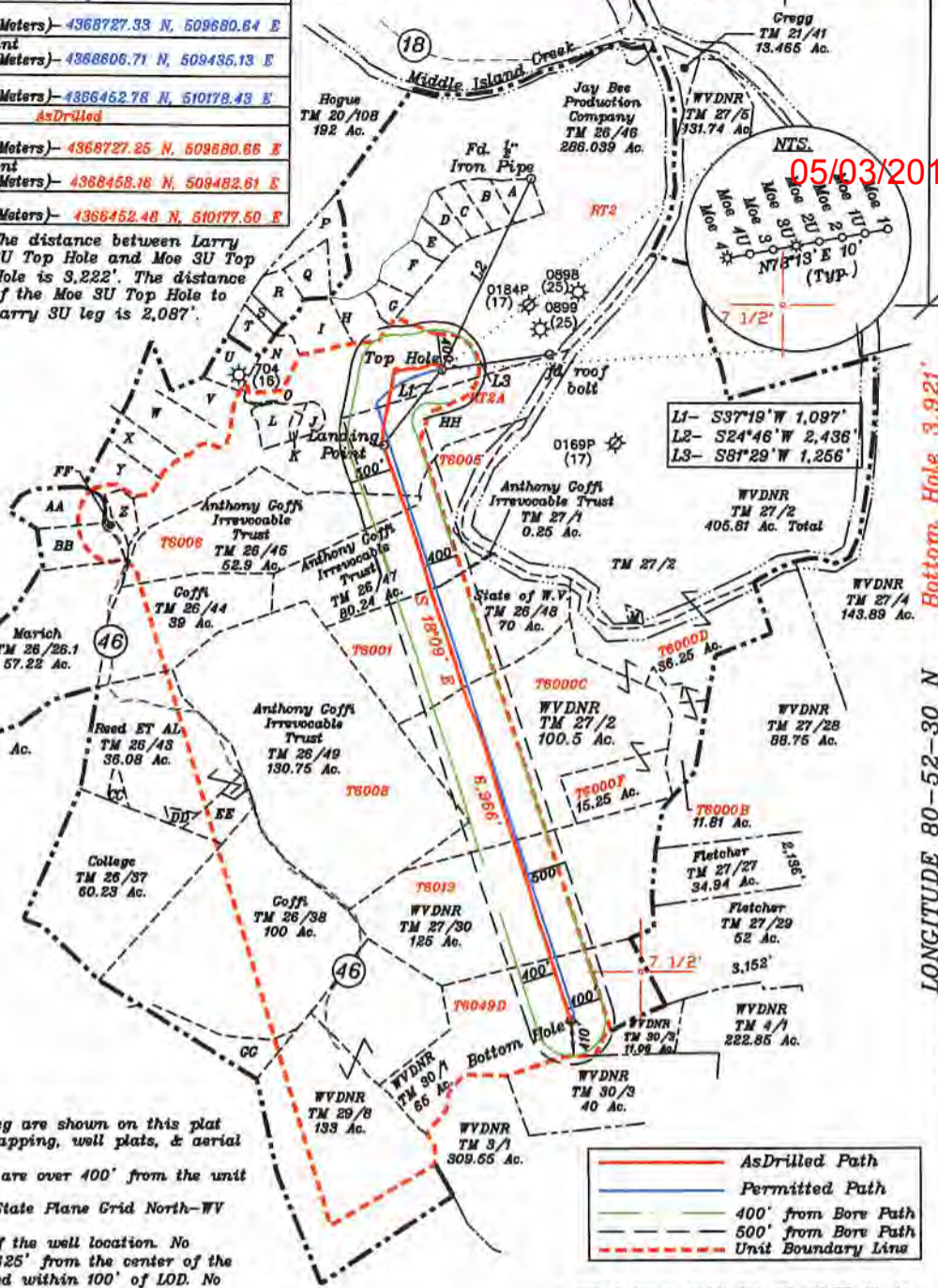
- A-Sulser TM. 20-110 4.412 Ac.
- B-Kelly et al TM. 26-46.18 4.323 Ac.
- C-Kelly et al TM. 26-46.17 4.114 Ac.
- D-Johnson TM. 26-46.23 3.598 Ac.
- E-Johnson TM. 26-46.22 2.92 Ac.
- F-Holliday TM. 26-46.13 5.94 Ac.
- G-Holliday TM. 26-46.12 3.238 Ac.
- H-Kanz TM. 26-46.3 5.4 Ac. SWN
- I-Patera TM. 26-46.7 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-JayBee 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. 26-46.16 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.
- AA-Pulmer TM. 26-19.11 9.40 Ac.
- BB-Westbrook TM. 26-19.4 9.36 Ac.
- CC-Reed TM. 26-41 1 Ac.
- DD-Reed TM. 26-40 2.75 Ac.
- EE-Reed et al TM. 26-39 8.17 Ac.
- FF-JayBee Oil & Gas, Inc. TM. 26-19.9 1.498 Ac.
- GG-WVDNR TM. 29-7 7.5 Ac.

The distance between Larry 3U Top Hole and Moe 3U Top Hole is 3,222'. The distance of the Moe 3U Top Hole to Larry 3U leg is 2,087'.



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. Well bore path and surface hole location are over 400' from the unit boundary.
  3. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
  4. 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



HH-Anthony Gotti TM. 26-46.25 40 Ac.

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 June 5, 2017  
 OPERATOR'S WELL NO. Moe 3U  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_\_\_ DEEP  SHALLOW \_\_\_\_\_

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 Utica ESTIMATED DEPTH TVD = 11,300' TMD = 18,835'  
 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



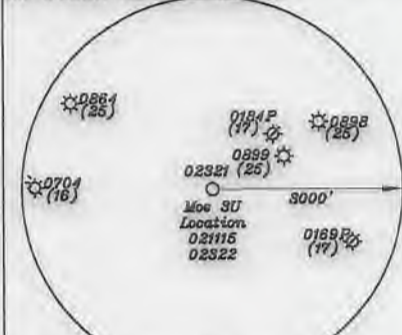
Proposed	
Top Hole	UTM NAD 83(Meters)-4368727.33 N, 509680.84 E
Landing Point	UTM NAD 83(Meters)-4368806.71 N, 509435.18 E
Bottom Hole	UTM NAD 83(Meters)-4368452.78 N, 510178.43 E
AsDrilled	
Top Hole	UTM NAD 83(Meters)-4368727.25 N, 509680.85 E
Landing Point	UTM NAD 83(Meters)-4368458.16 N, 509482.61 E
Bottom Hole	UTM NAD 83(Meters)-4368452.48 N, 510177.50 E

- A-Sulser TM. 20-110 4.412 Ac.
- B-Kelly et al TM. 26-46.18 4.323 Ac.
- C-Kelly et al 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-Kanz TM. 26-46.3 5.4 Ac. SWN
- 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-JayBee 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. 26-46.18 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 6.45 Ac.
- Z-JayBee TM. 26-46.24 3.059 Ac.
- AA-Palmer TM. 26-19.11 9.40 Ac.
- BB-Westbrook TM. 26-19.4 9.38 Ac.
- CC-Read TM. 26-41 1 Ac.
- DD-Read TM. 26-40 2.75 Ac.
- EE-Read et al TM. 26-39 8.17 Ac.
- FF-JayBee Oil & Gas, Inc. TM. 26-19.8 1,496 Ac.
- GC-WVDNR TM. 29-7 7.5 Ac.

The distance between Larry SU Top Hole and Moe SU Top Hole is 3,222'. The distance of the Moe SU Top Hole to Larry SU leg is 2,087'.

NORTH

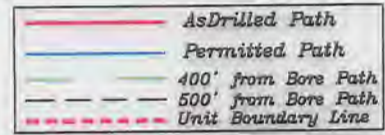
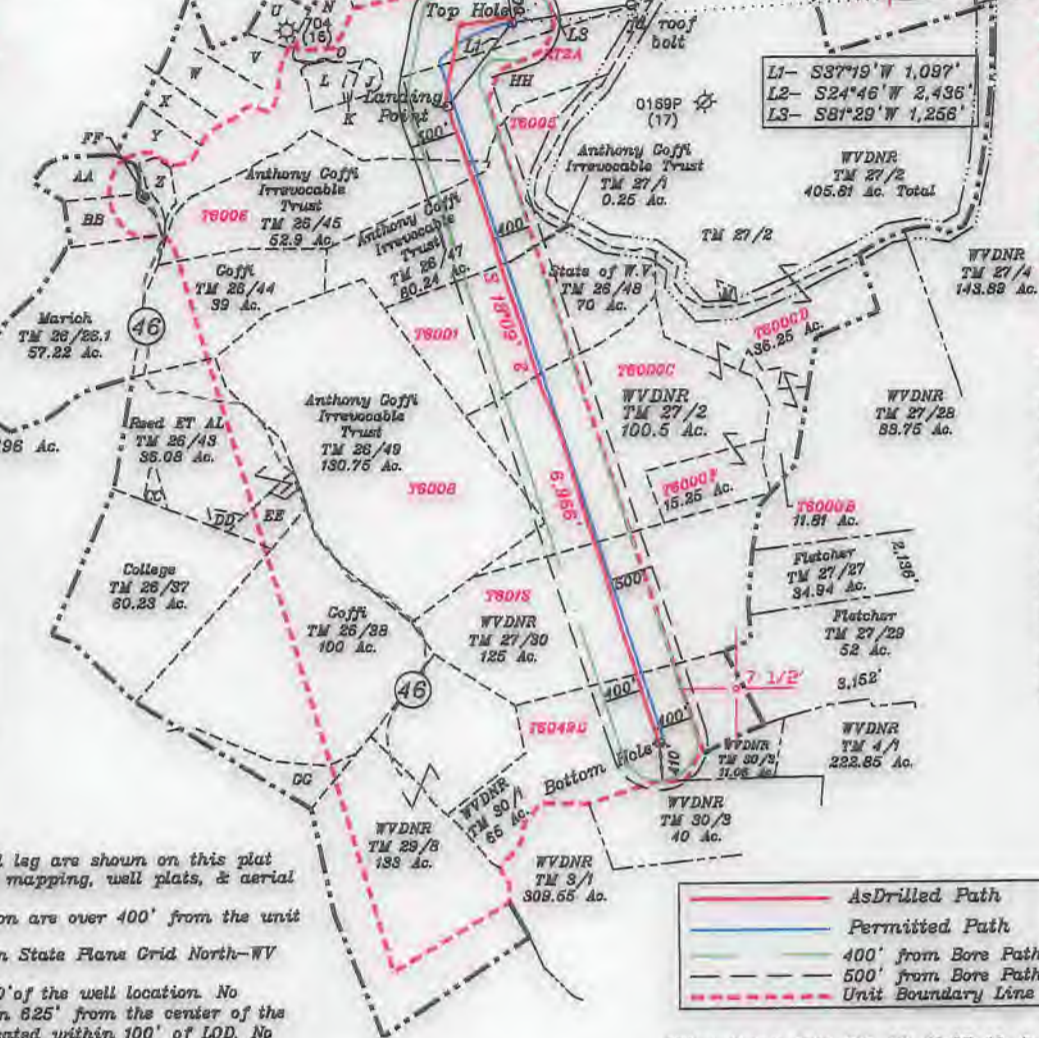
LONGITUDE 80-52-30 N



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. Well bore path and surface hole location are over 400' from the unit boundary.
3. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.
4. No water wells were found within 250' of the well location. No dwellings or buildings were found within 825' 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



HH-Anthony Gotti TM. 26-46.25 40 Ac.

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 June 5, 2017  
 OPERATOR'S WELL NO. Moe 3U  
 API WELL NO. AsDrilled

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

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

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