

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

API 47-095-02334 County Tyler District McElroy Ellsworth  
Quad Shirley 7.5 Middlebourne 7.5 Pad Name Larry Field/Pool Name \_\_\_\_\_  
Farm name Jay-Bee Production Well Number Larry 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 4,369,521.62 Easting 510,258.01  
Landing Point of Curve Northing 4,369,362.52 Easting 510,132.20  
Bottom Hole Northing 4,367,581.90 Easting 510,784.04

Elevation (ft) 738.9' 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 4-20-2016 Date drilling commenced 6-22-2016 Date drilling ceased 11-28-2016  
Date completion activities began 2-11-2017 Date completion activities ceased 2-20-2017  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 74.6 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  
6/18/2020

API 47- 095 - 02334 Farm name Jay-Bee Production Well number Larry 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"	331'	New	94 lb./ft	50'	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2,034'	New	61 lb./ft	400', 1,500'	Y
Intermediate 2	12 1/4"	9 5/8"	8,813'	New	47 lb./ft		Y
Intermediate 3							
Production	8 1/2"	5 1/2"	17,922'	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	495.6	CTS	8
Coal							
Intermediate 1	Class A	Lead 1035 - Tail 415	Lead 15.0 - Tail 15.6	Lead 1.31 - Tail 1.19	1830.4	CTS	8
Intermediate 2	Class A	Lead 1400 - Tail 193	Lead 12.5 - Tail 15	Lead 2.31 - Tail 1.34	3256.5	1805' from surface	8
Intermediate 3							
Production	Class A	3693	15.6	1.18	4570.3	480' from surface	8
Tubing							

Drillers TD (ft) 17,956' Loggers TD (ft) 17,956'  
 Deepest formation penetrated Point Pleasant Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 10,362'

Check all wireline logs run  caliper  density  deviated/directional  induction  neutron  resistivity  gamma ray  temperature

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 \_\_\_\_\_

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Esomc

API 47-095 - 02334 Farm name Jay-Bee Production Well number Larry 3U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	2-11-17	17860	17704	72	Point Pleasant
2	2-11-17	17659	17492	72	Point Pleasant
3	2-12-17	17438	17290	72	Point Pleasant
4	2-12-17	17244	17082	72	Point Pleasant
5	2-12-17	17046	16904	72	Point Pleasant
6	2-13-17	16836	16690	72	Point Pleasant
7	2-13-17	16654	16485	72	Point Pleasant
8	2-13-17	16444	16287	72	Point Pleasant
9	2-14-17	16240	16082	72	Point Pleasant
10	2-14-17	16044	15896	72	Point Pleasant
11	2-14-17	15836	15664	72	Point Pleasant
12	2-14-17	15618	15488	72	Point Pleasant
13	2-15-17	15432	15299	72	Point Pleasant
14	2-15-17	15264	15096	72	Point Pleasant
15	2-15-17	15038	14875	72	Point Pleasant
16	2-15-17	14832	14678	72	Point Pleasant

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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)
1	2-11-17	63	11826	N/A	6661	180000	5233	N/A
2	2-11-17	65	11039	11380	7961	180000	5458	N/A
3	2-12-17	64	11637	11858	7853	180000	2022	N/A
4	2-12-17	68	11373	12072	7470	180000	6009	N/A
5	2-12-17	67	11335	11689	7687	180000	3955	N/A
6	2-13-17	74	11360	11932	7573	180000	5422	N/A
7	2-13-17	67	11420	11881	7577	180000	5745	N/A
8	2-13-17	68	11301	11388	7700	180000	5679	N/A
9	2-14-17	69	11467	11670	7756	180000	5253	N/A
10	2-14-17	70	10984	11471	7659	180000	5874	N/A
11	2-14-17	70	11054	11544	7677	180000	5198	N/A
12	2-14-17	65	11345	11571	7450	180000	5195	N/A
13	2-15-17	62	11271	11959	7493	180000	4593	N/A
14	2-15-17	68	11197	11018	7481	180000	4045	N/A
15	2-15-17	68	11060	11238	7697	183820	6028	N/A
16	2-15-17	69	11070	11856	8793	179300	5640	N/A

Please insert additional pages as applicable.

API 47-095 - 02334

Farm name Jay-Bee Production

Well number Larry 3U

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	2-16-17	14630	14465	72	Point Pleasant
18	2-16-17	14411	14296	72	Point Pleasant
19	2-16-17	14256	14092	72	Point Pleasant
20	2-16-17	14043	13900	72	Point Pleasant
21	2-17-17	13860	13696	72	Point Pleasant
22	2-17-17	13650	13517	72	Point Pleasant
23	2-17-17	13460	13278	72	Point Pleasant
24	2-18-17	13228	13074	72	Point Pleasant
25	2-18-17	13036	12886	72	Point Pleasant
26	2-18-17	12838	12667	72	Point Pleasant
27	2-19-17	12618	12512	72	Point Pleasant
28	2-19-17	12440	12292	72	Point Pleasant
29	2-19-17	12226	12020	72	Point Pleasant
30	2-19-17	11964	11848	72	Point Pleasant
31	2-19-17	11810	11670	72	Point Pleasant
32	2-19-17	11632	11496	72	Point Pleasant

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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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	2-16-17	70	11290	11702	8152	184300	5381	N/A
18	2-16-17	69	11181	12475	8042	182200	6010	N/A
19	2-16-17	67	11394	12526	7609	179300	6115	N/A
20	2-16-17	64	11274	11850	7611	184600	5452	N/A
21	2-17-17	68	12347	12168	7727	183800	5594	N/A
22	2-17-17	69	11102	12048	7699	181700	5639	N/A
23	2-17-17	70	10670	10922	7617	182800	5608	N/A
24	2-18-17	69	10477	10738	7510	180800	5395	N/A
25	2-18-17	69	10457	10755	8412	182300	6278	N/A
26	2-18-17	72	10530	10501	8772	179600	5124	N/A
27	2-19-17	72	10494	11152	8087	182500	5476	N/A
28	2-19-17	72	10312	10551	7955	180900	5615	N/A
29	2-19-17	70	10553	11040	8345	176600	5170	N/A
30	2-19-17	72	10524	12154	7642	180400	5146	N/A
31	2-19-17	70	10349	10686	8216	183600	5211	N/A
32	2-19-17	72	10377	10353	8830	183200	5531	N/A

Please insert additional pages as applicable.



API 47- 095 - 02334 Farm name Jay-Bee Production Well number Larry 3U

PRODUCING FORMATION(S)	DEPTHS	
Point Pleasant	11,157' TVD	17,956' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 8200 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 8000 mcfpd Oil   bpd NGL   bpd Water 75 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 <sub>2</sub> S, ETC)
See Attached.	0		0		

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Please insert additional pages as applicable.

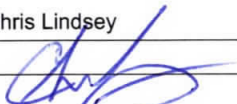
Drilling Contractor Nomac  
Address 3400 South Radio Road City El Reno State OK Zip 73036

Logging Company Stratagraph Inc.  
Address 116 Ellsworth Ave. 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 Chris Lindsey Telephone 304-628-3111  
Signature  Title Office Manager Date 6/25/19

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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: 47-095-02334 County: Tyler  
District: McElroy Well No: Larry 3U  
Farm Name: Jay-Bee Production  
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: Randy Broda

Title of Officer: President

Date Completed: \_\_\_\_\_

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.

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**OIL AND GAS RECLAMATION NOTICE**

TO:

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

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:

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API Permit No. 47- 095 - 02334 \_\_\_\_\_;

Acreage 286.03 \_\_\_\_\_;

Watershed Middle Island Creek \_\_\_\_\_;

District McElroy \_\_\_\_\_;

County Tyler \_\_\_\_\_;

Public Road Access \_\_\_\_\_;

Generally used farm name Jay-Bee Production \_\_\_\_\_.

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 \_\_\_\_\_



**Lithology**

Larry 3U 47-095-02334

<b>FORMATION</b>	<b>TOP</b>	<b>BOTTOM</b>
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	6075
PARCELL LIME	6075	6110
SHALE	6110	6136
LOWER MARCELLUS	6136	6189
ONONDAGA	6206	6235
HUNTERSVILLE CHERT	6235	6429
ORISKANY	6429	6473

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HELDERBERG	6473	6905
BASS ISLAND	6905	6965
SALINA	6965	8014
LOCKPORT	8014	8304
NIAGRAN/ROSE HILL	8304	8774
PACKER SHELL	8774	8818
CLINTON	8818	8970
QUEENSTON	8970	9786
REEDSVILLE	9786	10858
UTICA	10858	11013
POINT PLEASANT	11013	0

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Environmental Protection

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/11/2017
Job End Date:	2/20/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02334-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	LARRY 3U
Latitude:	39.47522200
Longitude:	-80.88073500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,091
Total Base Water Volume (gal):	8,783,838
Total Base Non Water Volume:	0



**Frac Focus**  
Chemical Disclosure Registry



## 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	91.77588	None
Sand (Proppant)	Producers Service Corp	Proppant					
KRYPTOSPHERE LD35	Producers Service Corp	Ceramic Proppant	Silica Substrate	14808-60-7	100.00000	3.34362	None
KRYPTOSPHERE LD25	Producers Service Corp	Ceramic Proppant	Ceramic Materials	66402-68-4	100.00000	3.30160	None
15% IC Acid	Producers Service Corp	Acidizing	Ceramic Materials	66402-68-4	100.00000	0.83761	None
FRA-408	Producers Service Corp	Friction Reducer	Hydrochloric Acid	7647-01-0	15.00000	0.09121	None
PRO GEL 4.0L	Producers Service Corp	Proppant Gel	Petroleum Naphtha	64742-47-8	30.00000	0.01424	None
			Guar Gum Blend	9000-30-0	100.00000	0.01167	None

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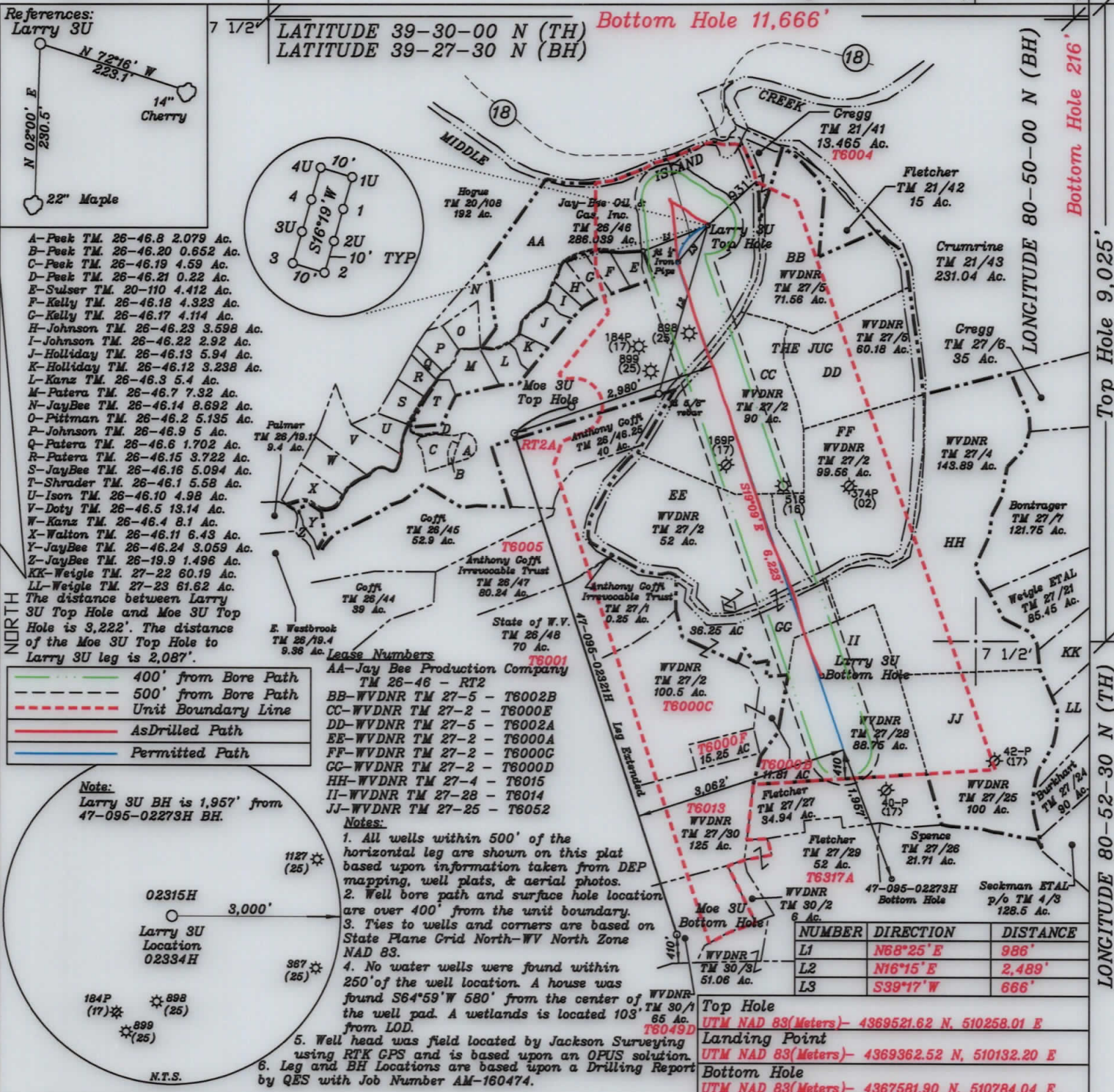
SCALECLEAR 112	Producers Service Corp	Scale Inhibitor	Ethylene Glycol	107-21-1		40.00000	0.00921	None	
SUPERSLIK	Producers Service Corp	Friction Reducer	Distillates	64742-47-8		18.00000	0.00541	None	
MB-7530	Producers Service Corp	Biocide	Tetrahydro-3, 5-dimethyl-2H-1,3,5-thiadiazine-2-thione	533-74-4		24.00000	0.00282	None	
BIOCLEAR 1430	Producers Service Corp	Biocide	Sodium Hydroxide	1310-73-2		4.00000	0.00047	None	
STIMLUBE F	Producers Service Corp	Friction Reducer	Glutaraldehyde	111-30-8		20.00000	0.00128	None	
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1		5.00000	0.00032	None	
			Dimethylamine	68439-70-3		0.50000	0.00003	None	
			Petroleum Distillates	64742-47-8		30.00000	0.00085	None	
			Alcohols, ethoxylated	68551-12-2		3.10000	0.00009	None	
			Alcohols, ethoxylated	68439-50-9		3.10000	0.00009	None	
			Alcohols, ethoxylated	68002-97-1		3.10000	0.00009	None	
PRO BREAK 4	Producers Service Corp	Gel Breaker	Surcose	57-50-1		46.00000	0.00002	None	
			Ethylene Glycol	107-21-1		14.00000	0.00001	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	0.00047		
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1		5.00000	0.00032		
			Alcohols, ethoxylated	68551-12-2		3.10000	0.00009		
			Alcohols, ethoxylated	68439-50-9		3.10000	0.00009		
			Alcohols, ethoxylated	68002-97-1		3.10000	0.00009		
			Dimethylamine	68439-70-3		0.50000	0.00003		
			Ethylene Glycol	107-21-1		14.00000	0.00001		

\* 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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(+) 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

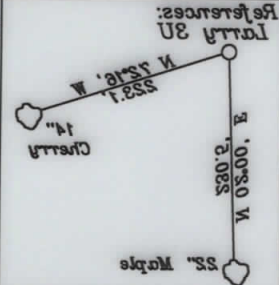
DATE June 27, 2019  
 OPERATOR'S WELL NO. Larry 3U  
 API WELL NO. As Drilled

WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL \_\_\_\_\_  
 (IF 'GAS') PRODUCTION X STORAGE \_\_\_\_\_ DEEP X SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 738.9' WATER SHED Middle Island Creek  
 DISTRICT Ellsworth COUNTY Tyler  
 QUADRANGLE Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)

SURFACE OWNER Jay Bee Oil & Gas, Inc. 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 X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Utica ESTIMATED DEPTH TVD = 11,157'; TMD = 17,956'  
 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

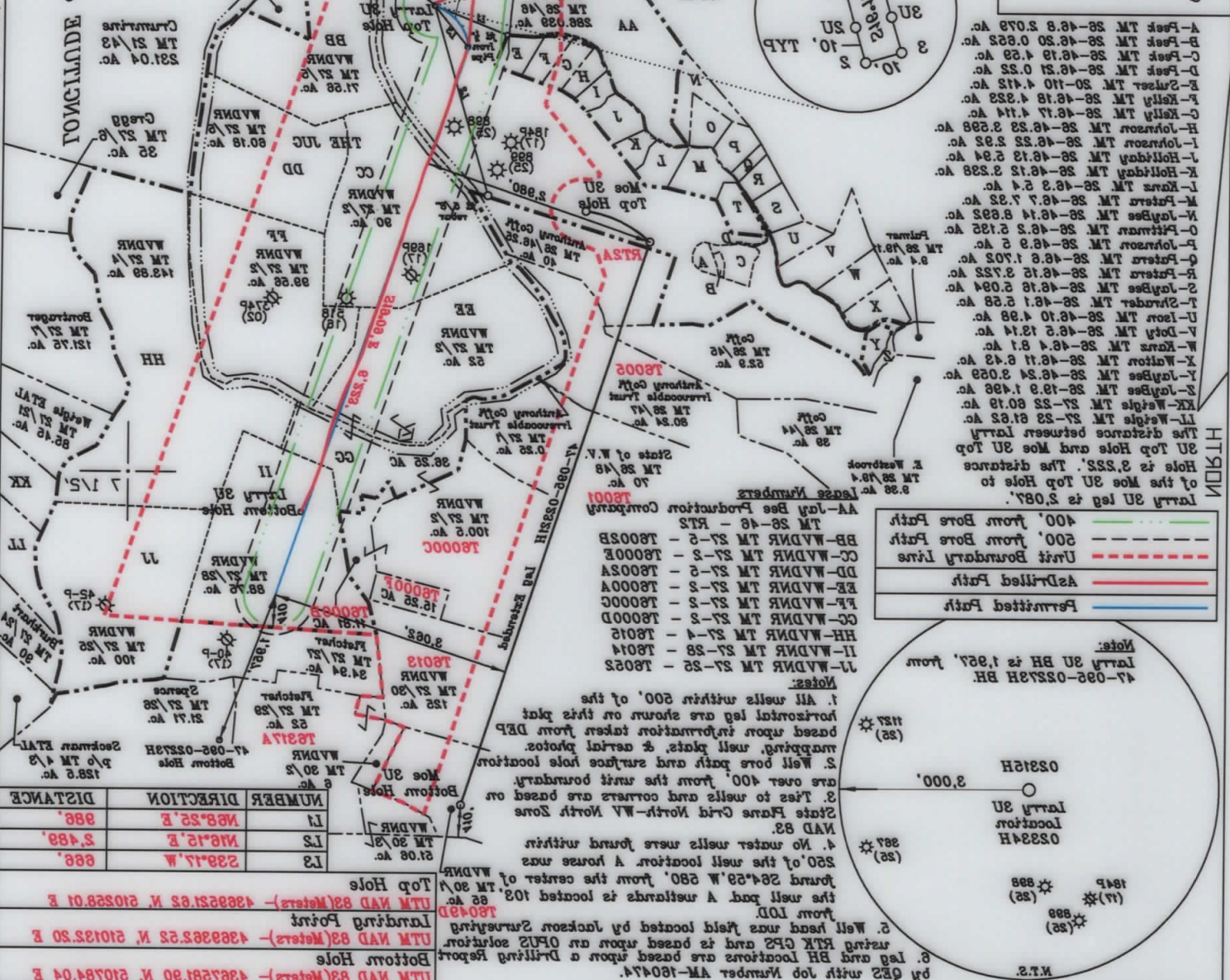


LATITUDE 39-27-30 N (BH)  
 LATITUDE 39-30-00 N (TH)

Bottom Hole 11,666'

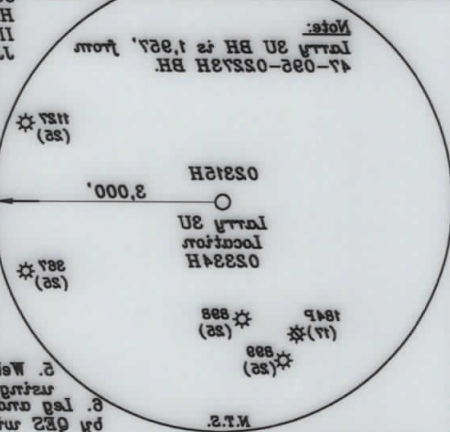
Top Hole 1,618'

Bottom Hole 316'  
 CONCLUDE 80-20-00 N (BH)



Legend:

- Permitted Path (Blue line)
- Asdrilled Path (Red line)
- Unit Boundary Line (Dashed line)
- 500' from Bore Path (Green dashed line)
- 100' from Bore Path (Black dashed line)



NUMBER	DIRECTION	DISTANCE
L1	N68°25' E	386'
L2	N68°15' E	2,489'
L3	S38°17' W	666'

NOTE: 1. All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well logs & aerial photos. 2. Well bore path and surface hole locations 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. A horse was found 264°58' W 580' from the center of TM 20/28. 5. Well head was field located by Jackson Surveying using RTK GPS and is based upon an OPUS solution. 6. Leg and BH locations are based upon a drilling report by G22 with Job Number AM-180474.

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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF GAS) PRODUCTION X STORAGE DEEP X SHALLOW  
 LOCATION: ELEVATION 2389' WATER SHED Middle Island Creek  
 DISTRICT: Ellsworth  
 QUADRANGLE: Middlebourne 7 1/2' (TH), Shirley 7 1/2' (BH)  
 SURFACE OWNER: Jay Bee Oil & Gas, Inc.  
 OIL & GAS ROYALTY OWNER: Ridgeway Capital LP and Ridgeway Capital II, LP LEASE ACREAGE 286.03 ac. ACREAGE 286.03 ac.  
 LEASE NO. RTS  
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Asdrilled

DESIGNATED AGENT: Randy Brody  
 WELL OPERATOR: Jay-Bee Oil & Gas, Inc.  
 ADDRESS: 3270 Shields Hill Rd., Carro, WV 26037

PLUG AND ABANDON CLEAN OUT AND REPLUG  
 TARGET FORMATION: Utica  
 ESTIMATED DEPTH: TVD = 11,157'; TMD = 17,956'

DATE June 27, 2019  
 OPERATOR'S WELL NO. Larry 3U  
 API WELL NO. Asdrilled

STATE COUNTY 47 095 095 - 02334H MOD PERMIT

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION GPS  
 submeter wrist

(SIGNED) David K. Jackson  
 R.P.E. 708

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 OF ENVIRONMENTAL PROTECTION.

DAVID JACKSON  
 LICENSED PROFESSIONAL SURVEYOR  
 STATE OF WEST VIRGINIA  
 No. 708