

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

API 47-095-02329 County Tyler District McElroy  
Quad Shirley 7.5' Pad Name RPT8 Field/Pool Name \_\_\_\_\_  
Farm name Jack Hair et al Well Number RPT8-4  
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 4,370,413.98 Easting 518,404.12  
Landing Point of Curve Northing 518,458.82 Easting 4,370,837.34  
Bottom Hole Northing 517,820.32 Easting 4,372,824.56

Elevation (ft) 1,245.9 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 4-21-2016 Date drilling commenced 8-17-2016 Date drilling ceased 1-29-2017  
Date completion activities began 4-2-2017 Date completion activities ceased 4-11-2017  
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 374 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:  
JEB  
6/19/2020

API 47-095 - 02329 Farm name Jack Hair et al Well number RPT8-4

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	J-55 40 lb./ft		Y
Surface	15"	11 3/4"	441'	New	J-55 32 lb./ft	50'	Y
Coal							
Intermediate 1	11"	8 5/8"	2,399'	New	J-55 24 lb./ft	400', 1,500'	Y
Intermediate 2							
Intermediate 3							
Production	7 7/8"	5 1/2"	14,709'	New	P-110 17 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	241	15.6	1.2	289.2	CTS	8
Coal							
Intermediate 1	Class A	618	15.2	1.27	784.9	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	2240	14.5	1.17	2620.8	1,775' from surface	8
Tubing							

Drillers TD (ft) 14,728' Loggers TD (ft) 14,728'  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

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Kick off depth (ft) 6,262'

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

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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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Farm name Jack Hair et al

Well number RPT8-4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4-2-17	14653	14540	48	Marcellus
2	4-2-17	14505	14310	72	Marcellus
3	4-3-17	14275	14114	72	Marcellus
4	4-3-17	14069	13898	72	Marcellus
5	4-3-17	13863	13698	72	Marcellus
6	4-3-17	13663	13472	72	Marcellus
7	4-4-17	13437	13266	72	Marcellus
8	4-5-17	13231	13066	72	Marcellus
9	4-5-17	13031	12867	72	Marcellus
10	4-5-17	12832	12668	72	Marcellus
11	4-6-17	12633	12480	72	Marcellus
12	4-6-17	12445	12263	72	Marcellus
13	4-6-17	12228	12080	72	Marcellus
14	4-7-17	12045	11860	72	Marcellus
15	4-7-17	11824	11664	72	Marcellus
16	4-7-17	11625	11441	72	Marcellus

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)
1	4-2-17	70	7682	N/A	3746	94000	305	N/A
2	4-2-17	70	6606	7586	2837	179600	6777	N/A
3	4-3-17	68	7094	7513	3687	184100	6892	N/A
4	4-3-17	68	7082	7445	4709	179700	4532	N/A
5	4-3-17	74	7228	6661	4643	174100	4356	N/A
6	4-3-17	73	7080	6803	4978	185000	5195	N/A
7	4-4-17	70	7331	6762	4908	185800	5150	N/A
8	4-5-17	72	7247	6958	4367	183100	4581	N/A
9	4-5-17	67	7114	7287	4751	179600	4236	N/A
10	4-5-17	75	7177	7297	5332	176100	4083	N/A
11	4-6-17	74	6937	6877	4690	173000	3906	N/A
12	4-6-17	75	7133	7655	4873	184600	3669	N/A
13	4-6-17	74	7196	7533	4976	173600	3935	N/A
14	4-7-17	76	7220	8234	4780	173000	4379	N/A
15	4-7-17	71	6920	6639	4501	180000	4246	N/A
16	4-7-17	73	6752	7219	4725	173300	3998	N/A

Please insert additional pages as applicable.

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Farm name Jack Hair et al

Well number RPT8-4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	4-7-17	11401	11242	72	Marcellus
18	4-7-17	11203	11046	72	Marcellus
19	4-8-17	11008	10855	72	Marcellus
20	4-8-17	10811	10679	72	Marcellus
21	4-8-17	10640	10447	72	Marcellus
22	4-8-17	10408	10248	72	Marcellus
23	4-8-17	10202	10069	72	Marcellus
24	4-9-17	10006	9855	72	Marcellus
25	4-9-17	9812	9650	72	Marcellus
26	4-9-17	9611	9445	72	Marcellus
27	4-9-17	9406	9247	72	Marcellus
28	4-9-17	9200	9051	72	Marcellus
29	4-10-17	8975	8828	72	Marcellus
30	4-10-17	8764	8650	72	Marcellus
31	4-10-17	8606	8427	72	Marcellus
32	4-10-17	8385	8242	72	Marcellus

Please insert additional pages as applicable.

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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 (cu ft)	Amount of Fracture Fluid
17	4-7-17	76	6866	6492	4305	182200	4131	N/A	
18	4-7-17	68	6467	6790	4468	180000	4429	N/A	
19	4-8-17	75	6842	6464	4624	189600	4837	N/A	
20	4-8-17	73.1	6874	6322	4403	186700	4033	N/A	
21	4-8-17	73	7203	6689	4693	185700	4262	N/A	
22	4-8-17	72	6820	6364	4443	182200	3887	N/A	
23	4-8-17	75	6815	6922	4594	184300	4229	N/A	
24	4-9-17	75	6637	6713	4990	183600	4334	N/A	
25	4-9-17	75	6659	6155	6001	181700	3783	N/A	
26	4-9-17	76	6670	6125	5130	182100	3921	N/A	
27	4-9-17	75	6737	6975	5018	184200	4079	N/A	
28	4-9-17	76	6624	7433	4799	178600	4330	N/A	
29	4-10-17	76	6745	6823	4897	182800	4330	N/A	
30	4-10-17	76	6705	7255	5121	185200	3769	N/A	
31	4-10-17	76	6366	6409	4974	183900	3669	N/A	
32	4-10-17	76	6650	6636	4943	185000	3852	N/A	

Please insert additional pages as applicable.

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
33	4-10-17	8192	8016	72	Marcellus
34	4-11-17	7969	7821	72	Marcellus
35	4-11-17	7786	7626	72	Marcellus
36	4-11-17	7594	7407	72	Marcellus

Please insert additional pages as applicable.

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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)
33	4-10-17	76	6285	6393	4984	181600	4580	N/A
34	4-11-17	76	6413	6434	5147	186200	3400	N/A
35	4-11-17	76	6197	6542	4688	192900	3360	N/A
36	4-11-17	75	6162	6011	4446	187100	3452	N/A

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)

DEPTHS

Marcellus 6,886' TVD 14,728' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2600 psi Bottom Hole N/A psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 8300 mcfpd Oil 50 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 <sub>2</sub> S, ETC)
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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 Northeast, 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 Kim Swiger Telephone 304-628-3111  
Signature Kim Swiger Title Permitting Agent Date 5/22/2020

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: 47-095-02329 County: Tyler  
District: McElroy Well No: RPT8-4  
Farm Name: Jack Hair et al

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: RECEIVED  
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- (5) Centralized Facility: \_\_\_\_\_ Permit No. \_\_\_\_\_ JUN 12 2020
- (6) Other method: \_\_\_\_\_ (Include an explanation)

Follow Instructions below to determine your treatment category:

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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: 5/22/2020

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 \_\_\_\_\_

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 - 02329 \_\_\_\_\_;

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

Watershed Big Run \_\_\_\_\_;

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

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

Public Road Access Big Run Road \_\_\_\_\_;

Generally used farm name Jack Hair et al \_\_\_\_\_.

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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**

RPT8-4 47-095-02329

<b>FORMATION</b>	<b>TOP</b>	<b>BOTTOM</b>
MISC. RED ROCK & SHALES	0	2105
LIME	2105	2205
INJUN	2205	2322
SHALE	2322	2669
GORDON STRAY	2669	2689
SHALE	2689	2885
GORDON	2885	2915
SHALE	2915	3194
BAYARD	3194	3203
SHALE	3203	3532
WARREN	3532	3630
SHALE	3630	3866
BALLTOWN	3866	4029
SHALE	4029	4467
2ND RILEY	4467	4575
SHALE	4575	4726
3RD RILEY	4726	4767
SHALE	4767	4824
BENSON	4824	4827
SHALE	4827	5069
ALEXANDER	5069	5240
SHALE	5240	5485
ELK	5485	5533
SHALE	5533	5994
HAMILTON	5994	6168
SHALE	6168	6824
UPPER MARCELLUS	6824	6846
PARCELL LIME	6846	6881
SHALE	6881	6901
LOWER MARCELLUS	6901	0

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## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/2/2017
Job End Date:	4/11/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02329-00-00
Operator Name:	Jay-Bee Oil & Gas, Inc.
Well Name and Number:	RPT 8-4
Latitude:	39.48312800
Longitude:	-80.78599800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,931
Total Base Water Volume (gal):	9,242,562
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	91.77840	None
Sand (Proppant)	Producers Service Corp	Proppant	Silica Substrate	14808-60-7	100.00000	7.69195	None
15% IC Acid	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.05919	None
STIMLUBE F	Producers Service Corp	Friction Reducer	Petroleum Distillates	64742-47-8	30.00000	0.02227	None
			Alcohols, ethoxylated	68551-12-2	3.10000	0.00230	None
			Alcohols, ethoxylated	68002-97-1	3.10000	0.00230	None
			Alcohols, ethoxylated	68439-50-9	3.10000	0.00230	None
PRO GEL 4.0L	Producers Service Corp	Gel	Guar Gum Blend	9000-30-0	100.00000	0.02021	None
SCALECLEAR 112	Producers Service Corp	Scale Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.01052	None

BIOCLEAR 1430	Producers Service Corp	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00286	None
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00071	None
			Dimethylamine	68439-70-3	0.50000	0.00007	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					
			Alcohols, ethoxylated	68439-50-9	3.10000	0.00230	
			Alcohols, ethoxylated	68002-97-1	3.10000	0.00230	
			Alcohols, ethoxylated	68551-12-2	3.10000	0.00230	
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	5.00000	0.00071	
			Dimethylamine	68439-70-3	0.50000	0.00007	
			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.

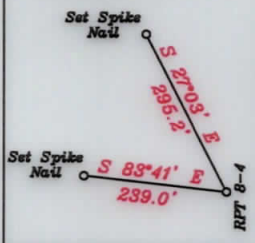
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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References



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.
- No waters wells were found within 250' of the location. No dwelling or agricultural buildings were found within 625' of the center of the well pad.

NUMBER	DIRECTION	DISTANCE
L1	S37°51' E	1,945'
L2	S58°37' E	2,031'
L3	N04°00' E	1,761'

- A-Hair et al TM. 2-2 53.31 Ac. T1-13
- B-Sherwood TM. 2-3 14.5 Ac. T3107
- C-Parr TM. 23-6.1 8.01 Ac. T3107A
- D-Parr TM. 23-6 18.62 Ac. T3106
- E-Hair et al TM. 23-5 3 Ac. T3106
- F-Hair et al TM. 23-4 9 Ac. T3106
- G-Weekley Est. TM. 23-27 7 Ac. T3109A2
- H-Adams TM. 23-1 20 Ac. T3901A1
- I-Bedore TM. 23-3 9 Ac. RPT11
- J-Parr TM. 17-54 17.43 Ac. T3221
- K-Parr TM. 17-55 34 Ac. T3246
- L-Williams TM. 17-57 12.51 Ac. T3246A
- M-Weekley et al TM. 16-34 15 Ac. T3248A
- N-Williams TM. 17-57.3 31.22 Ac. T3246A
- O-Williams TM. 17-57.2 29.6 Ac. T3246A
- P-Williams TM. 17-57.1 20.47 Ac. T3246A
- Q-Hammett et al TM. 17-34 18.49 Ac.
- R-Nichols et al TM. 2-19 12.5 Ac.
- S-Weekley TM. 16-33 16.5 Ac. T3248B
- T-Wilkinson TM. 17-33 1 Ac.
- U-Peck TM. 17-28 5 Ac.
- V-Parr TM. 23-7 46.5 Ac. T4002B

Surface Hole Location

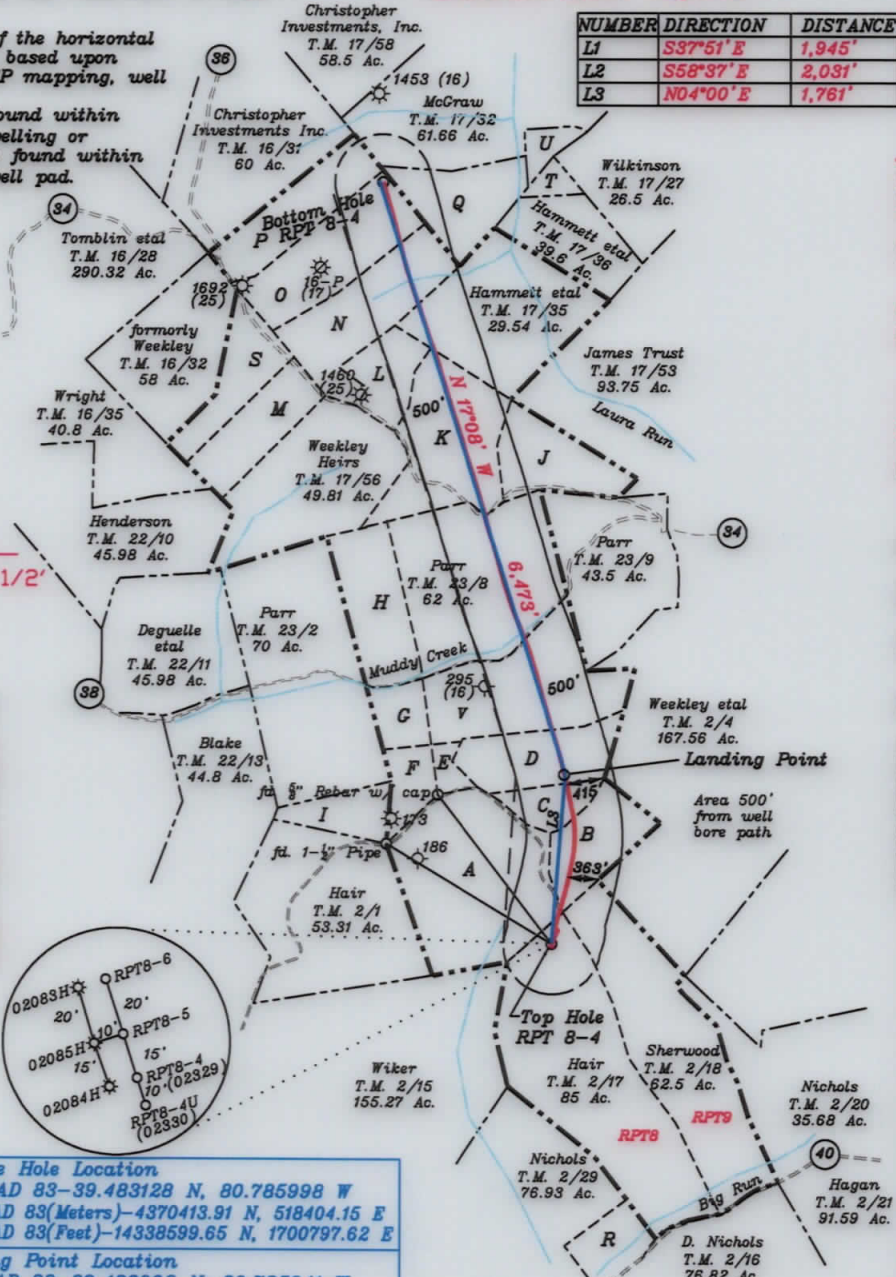
Geo. NAD 83-39.483129 N, 80.785998 W  
 UTM NAD 83(Meters)-4370413.98 N, 518404.12 E  
 UTM NAD 83(Feet)-14338599.85 N, 1700797.53 E

Landing Point Location

Geo. NAD 83-39.487956 N, 80.785651 W  
 UTM NAD 83(Meters)-4370949.81 N, 518432.67 E  
 UTM NAD 83(Feet)-14340357.83 N, 1700891.18 E

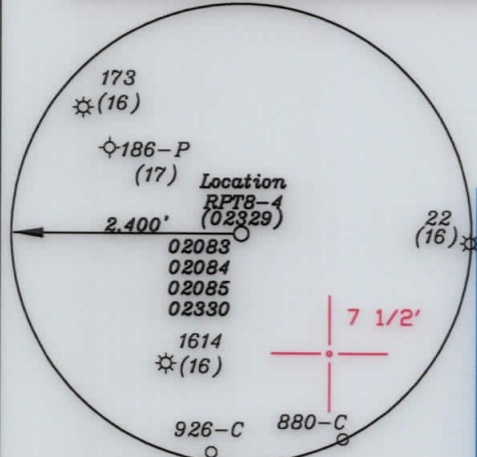
Bottom Hole Location

Geo. NAD 83-39.504862 N, 80.792722 W  
 UTM NAD 83(Meters)-4372824.56 N, 517820.32 E  
 UTM NAD 83(Feet)-14346508.59 N, 1698882.16 E



NORTH

LONGITUDE 80-45-00 W Bottom Hole 13,407' Top Hole 6,146'



**Surface Hole Location**  
 Geo. NAD 83-39.483128 N, 80.785998 W  
 UTM NAD 83(Meters)-4370413.91 N, 518404.15 E  
 UTM NAD 83(Feet)-14338599.65 N, 1700797.62 E

**Landing Point Location**  
 Geo. NAD 83-39.488062 N, 80.785641 W  
 UTM NAD 83(Meters)-4370961.56 N, 518433.54 E  
 UTM NAD 83(Feet)-14340396.37 N, 1700894.04 E

**Bottom Hole Location**  
 Geo. NAD 83-39.504447 N, 80.792657 W  
 UTM NAD 83(Meters)-4372778.59 N, 517826.02 E  
 UTM NAD 83(Feet)-14346357.62 N, 1698900.86 E

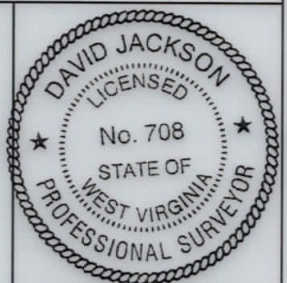
3. Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 83.

(+) 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 2, 2020  
 OPERATOR'S WELL NO. RPT 8 4  
 API WELL NO. AsDrilled

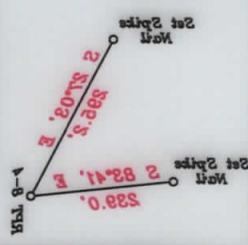
WELL TYPE: OIL X GAS X LIQUID INJECTION X WASTE DISPOSAL \_\_\_\_\_ STATE 47 COUNTY 095 PERMIT 02329  
 (IF 'GAS') PRODUCTION X STORAGE X DEEP X SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 1,245.9' WATER SHED Big Run  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Jack Hair et al ACREAGE 85 ac  
 OIL & GAS ROYALTY OWNER Jack Hair et al (85 Ac.)

LEASE NO. RPT 8  
 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=6,886' TMD=14,728'  
 WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda  
 ADDRESS 1720 Rt. 22 East Union, NJ 07083 ADDRESS Rt. 1 Box 5 Cairo, WV 26337



- A-Hart et al T.M. 2-2 53.31 Ac. T-1-13
- B-Sharwood T.M. 2-3 14.5 Ac. T3107
- C-Port T.M. 23-6 18.82 Ac. T3108
- D-Port T.M. 23-6 18.82 Ac. T3108
- E-Hart et al T.M. 23-6 18.82 Ac. T3108
- F-Hart et al T.M. 23-6 18.82 Ac. T3108
- G-Weekley et al T.M. 23-7 7 Ac. T3108A
- H-Adams T.M. 23-1 20 Ac. T3108A
- I-Bedore T.M. 23-3 3 Ac. RPT-11
- J-Port T.M. 17-54 17.43 Ac. T3221
- K-Port T.M. 17-52 34 Ac. T3248
- L-Williams T.M. 17-57 12.51 Ac. T3248A
- M-Weekley et al T.M. 18-24 15 Ac. T3248A
- N-Williams T.M. 17-57 3.31 22 Ac. T3248A
- O-Williams T.M. 17-57 3.31 22 Ac. T3248A
- P-Williams T.M. 17-57 1.20 47 Ac. T3248A
- Q-Hart et al T.M. 17-34 18.49 Ac.
- R-Nichols et al T.M. 2-19 12.5 Ac.
- S-Weekley T.M. 18-33 16.5 Ac. T3248B
- T-Williams T.M. 17-33 1 Ac.
- U-Port T.M. 17-28 5 Ac.
- V-Port T.M. 23-7 46.5 Ac. T4002B

**Surface Hole Location**  
 Geo. NAD 83-32.483128 N, 80.785298 W  
 UTM NAD 83(Meters)-4370413.91 N, 518404.12 E  
 UTM NAD 83(Feet)-14328292.88 N, 1700737.82 E

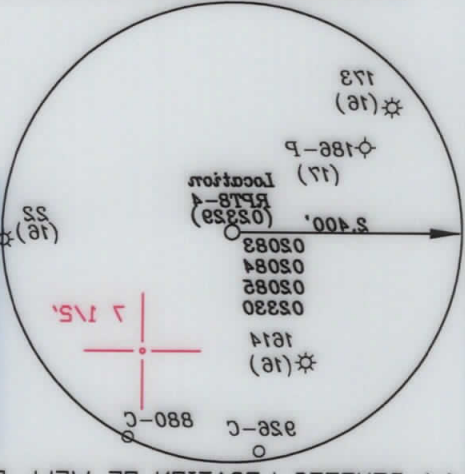
**Landing Point Location**  
 Geo. NAD 83-32.487856 N, 80.785291 W  
 UTM NAD 83(Meters)-4370943.81 N, 518432.67 E  
 UTM NAD 83(Feet)-14340257.83 N, 1700891.18 E

**Bottom Hole Location**  
 Geo. NAD 83-32.504882 N, 80.782722 W  
 UTM NAD 83(Meters)-4372824.56 N, 517820.32 E  
 UTM NAD 83(Feet)-14345628.59 N, 1698882.18 E

**Surface Hole Location**  
 Geo. NAD 83-32.483128 N, 80.785298 W  
 UTM NAD 83(Meters)-4370413.91 N, 518404.12 E  
 UTM NAD 83(Feet)-14328292.88 N, 1700737.82 E

**Landing Point Location**  
 Geo. NAD 83-32.488028 N, 80.785241 W  
 UTM NAD 83(Meters)-4370811.56 N, 518432.54 E  
 UTM NAD 83(Feet)-14340382.37 N, 1700894.04 E

**Bottom Hole Location**  
 Geo. NAD 83-32.504447 N, 80.782527 W  
 UTM NAD 83(Meters)-4372728.59 N, 517826.02 E  
 UTM NAD 83(Feet)-14345374.62 N, 1698900.88 E



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

NUMBER	DIRECTION	DISTANCE
L1	227.51' E	1.945'
L2	228.37' E	2.031'
L3	140.00' E	1.781'

Top Hole 10.152', Bottom Hole 13.404', Job Hole 9.148'

Longitude 80-42-00 W

Latitude 39-32-30 N BH, Latitude 39-33-00 N TH, Bottom Hole 15.042', Top Hole 10.152'



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.E., No. 708

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

ADDRESS 2720 Rt. 22 East Union, W 07083  
 WELL OPERATOR Jay Bee Oil & Gas, Inc.  
 DESIGNATED AGENT Randy Broda  
 TARGET FORMATION Marcelus  
 PLUG AND ABANDON CLEAN OUT AND REPLUG  
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled  
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW  
 PROPOSED WORK DRILL CONVERT DRILL DEEPER REDRILL FRACTURE DR  
 LEASE NO. RPT 8  
 SURFACE OWNER Jack Hart et al  
 DIL & GAS ROYALTY OWNER Jack Hart et al (85 Ac.)  
 QUADRANGLE Shirley 7 1/2'  
 DISTRICT McHenry  
 COUNTY Tyler  
 LOCATION: ELEVATION 1242.9', WATER SHED Big Run  
 (IF 'GAS') PRODUCTION STORAGE DEEP SHALLOW X  
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 OFFICE OF OIL AND GAS DIVISION OF ENVIRONMENTAL PROTECTION STATE OF WEST VIRGINIA  
 DATE June 2, 2020  
 OPERATOR'S WELL NO. RPT 8 A  
 API WELL NO. As Drilled  
 PERMIT COUNTY STATE 47 095 02329