

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

September 10, 2013

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-9502117, issued to JAY-BEE OIL & GAS, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: LARRY 3

Farm Name: RIDGETOP CAPITAL LP & II, LP

API Well Number: 47-9502117

Permit Type: Horizontal 6A Well

Date Issued: 09/10/2013

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95% compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 4. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 5. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 6. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 7. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator:	Jay-Bee Oil & Gas, Inc	24610	Tyler	Ellsworth	Middlebourne 7.5'	
		Operator ID	County	District	Quadrangle	
2) Operator's Well	Number: Lany 3	V	ell Pad Nam	e: Larry		
3 Elevation, curren	t ground: <u>740.23</u> F	Elevation, proposed p	ost-construc	tion:	739.4	
4) Well Type: (a) C	Gas <u>■</u> Oil	Underground	l Storage		_	
	Other					
(b) I	f Gas: Shallow	Deep				
5) Existing Pad? Ye	110112011dai					
, .	Formation(s), Depth(s), Anticip 250', Total Depth 16,500', 41-60' thick, 25-30 pm		d Associated	Pressure(s):	<u></u> -	
7) Proposed Total V	/ertical Depth: 7,250					
8) Formation at Tot	al Vertical Depth: Marcellus					
9) Proposed Total N	Measured Depth: 16,500					
10) Approximate F	resh Water Strata Depths:	74.8*				
11) Method to Dete	ermine Fresh Water Depth:	Well Record 47-095-01127 8	47-095-00864			
12) Approximate S	altwater Depths: NA					
13) Approximate C	Coal Seam Depths: NA					
14) Approximate D	epth to Possible Void (coal min	e, karst, other):	None			
15) Does proposed adjacent to an a	well location contain coal seam active mine? If so, indicate name	s directly overlying and depth of mine:	or No			
16) Describe propo		te a new Horizontal Well.				
17) Describe fracturing/stimulating methods in detail: 300-350' per stage 8,500bbls of water, 150,000-400,000tbs of sand, friction reducer, 1# per gallon, scale inhibitor and bacteria prevention 1/4# per gallon 2000 gallons 15% vol acid.						
					1	
18) Total area to be	e disturbed, including roads, sto	ckpile area, pits, etc,	(acres):	7.3 Adres	ived	
•	urbed for well pad only, less acc		6.8 Acres			
•					Page 1 of 3	

WW - 6B (3/13)

20)

CASING AND TUBING PROGRAM

ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	16	New	J55		30	30	-
Fresh Water	11 3/4	New	J55		300	300	CTS +25%
Coal							
Intermediate	8 5/8	New	J55		2,000	2,000	CTS +25%
Production	5 1/2	New	P110		16,500	16,500	Cement up to 1000' From Surface
Tubing							
Liners							

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	16	17 1/2	.495	3,000#	Class A Cement	1.19CF per Sack
Fresh Water	11 3/4	15	.333	1,500#	Class A Cement	1.19CF per Sack
Coal						
Intermediate	8 5/8	11	.264	2,500#	Class A Cement	1.19CF per Sack
Production	5 1/2	7 7/8	.304	15,000#	Type 1 Cement	1.19CF per Sack
Tubing						
Liners						

PACKERS

Kind:	N/A	
Sizes:		
Depths Set:		- Received

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wv Pont of 09/13/2013

*Note: Attach additional sheets as needed.

) Describe centralizer placement for each casing string. Vertical - Every 500' Bow Centralizer, and 50' from top of ground. Horizontal every 42' Spiral Centralizer, Curve - Every 84' Spiral	al Centralizer.
N D 11 11 11 11 11 11 11 11 11 11 11 11 1	
2) Describe all cement additives associated with each cement type.	1/4# floko
Superior Well Services - 15" hole for the 11 3/4 fresh water case, Class A Cement, 2% Calcium Chloride	, 1/4# llake.
Superior Well Services - 11" hole for the 8 5/8 intermediate base, Class A Cement, 2% Calcium Chloride, 1/4# Super Flake, No Foam, Bento	nite Super Flake
Baker Hughes - 7 7/8" hole for the 5 1/2 production case, Type 1 Cement, Fly Ash, Barite, Finetol 300L, R-3 Celio Flake, Sugar	, CD-32, FL-62
3) Proposed borehole conditioning procedures.	
Air Hole: 15" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry	
Air Hole: 11" hole for the 8 5/8 intermediate base - Circulate until clean with air. If soaping, slug then dry	
7 7/8" hole for the 5 1/2 production case - Circulate with mud and sweeps for two times bottoms up.	
If needed weight up mud until no cuttings retrieved, then circulate with mud and sweeps for two times bo	

Received

6/7/2013 Jay-Bee Oil & Gas Inc. Date District Ellsworth Well Name Larry 3 GL Elevation 739.4 KB 14 feet Tyler County West Virginia Input by: Shane Dowell State Conductor 16" J-55 17.5" Hole 30 feet GL Surface 11 3/4 J-55 300 feet GL 15" hole Intermediate 8 5/8 J-55 11" hole 2000 feet GL Cement Production 5 1/2 P-110 17# 7 7/8 hole 16,500 feet GL Office of Oil and Gas
WV Dept. of Environmental Protection

Total depth 16,500 feet GL

9502117

WW-9 (5/13)

	Page	of
API Number 47		
Operator's Wel	l No. Larry 3	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_Jay-Bee Oil & (Sas, Inc	OP Code	24610	
Watershed (HUC 10) Middle	Island Creek	QuadrangleMiddlebourn	e 7.5'	
Elevation 739.4	County_Tyler	District	Ellsworth	
Oo you anticipate using more	than 5,000 bbls of water to complet	te the proposed well work?	Yes_xNo_	
Will a pit be used for drill cut	tings? Yes x No No	-		
If so, please describe	anticipated pit waste:			
Will a synthetic liner	be used in the pit? Yes x	No If so, what ml.	?_60 mil	_
	1ethod For Treated Pit Wastes:			
La	nd Application			- 11 3
	derground Injection (UIC Permit N			
	use (at API Number other wells on same f Site Disposal (Supply form WW-			
Ot	her (Explain_Using Contract Haulers Magn	num Hunter (API's 34-121-23995, 34-1	21-24086) hauling to their	disposal wells
Will closed loop system be us		Z rr maar		
	for this well? Air, freshwater, oil ba			
-If oil based, what ty	pe? Synthetic, petroleum, etc			
Additives to be used in drilling	ng medium? Bentonite, Salt, Soda Ash			
	d? Leave in pit, landfill, removed o			
	n to solidify what medium will be u			
-Landfill or offsite n	ame/permit number? Waste Managen	nent Meadowfill/Permit 101219W	V	
				ON PERMIT is
1 2005 butto Of	rstand and agree to the terms and co	ginia Department of Environ	mental Protection. 1	understand tha
provisions of the permit are	enforceable by law. Violations of	any term or condition of the	general permit and	or other application
law or regulation can lead to	altre of law that I have nersonally	examined and am familiar	with the information	submitted on
11 .1 C J -11 at	tachments thereto and that based	on my inquiry of those if	ndividuais immediai	ery responsible
obtaining the information]	believe that the information is treinformation, including the possibil	ue, accurate, and complete.	I am aware mar u	nere are signif
Company Official Signature		DO		
Company Official (Typed N				
Company Official Title Offi	os Managor		Por	polye
		٨	10	- Harris
Subscribed and sworn before	e me this 7 day of	June	, 20	
V	Januly J. Bul	_ No	tary Put NEST	Danielle L
Water and the same	10/12/2020		The state of	Notary P State of Wes
My commission expires	10/23/2020		1	My Commissi
			AM SEASTING	St. Mary's, V

Form WW-9 Operator's Well No. Larry 3 Proposed Revegetation Treatment: Acres Disturbed 6.8 Prevegetation pH Tons/acre or to correct to pH 6.5 Fertilizer (10-20-20 or equivalent) 1/3ton lbs/acre (500 lbs minimum) Mulch hay/2 Tons/acre Seed Mixtures Area II Area I Seed Type lbs/acre Seed Type lbs/acre **KY-31** 15 40 Orchard Gr 5 5 Alsike Clover Alsike Clover Annual Rye Gras 15 Attach: Drawing(s) of road, location, pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments:

Field Reviewed?

MA Doby

west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01422

API/ID Number:

047-095-02117

Operator:

Jay-Bee Oil & Gas, Inc.

Larry 3

Important:

For each proposed primary water source (including source intakes for purchased water sources) identified in your water management plan, and summarized herein, DEP has made an evaluation concerning water availability over the specified date range. DEP's assessment is based on the following considerations:

- Statistical analysis of historical USGS stream gauge data (transferred to un-gauged locations as necessary);
- •Identification of sensitive aquatic life (endangered species, mussels, etc.);
- •Quantification of known existing demands on the water supply (Large Quantity Users);
- •Minimum flows required by the Army Corps of Engineers; and
- Designated stream uses.

Based on these factors, DEP has provided, for each intake location (and origination point for purchased water), a reference gauge location and discharge flow reading which must be surpassed prior to withdrawals. Additionally, DEP has established a minimum passby flow at the withdrawal location which must also be surpassed prior to withdrawals. These thresholds are considered terms of the permit and are enforceable as such.

DEP is aware that some intake points will be used for mutiple wells and well sites. In these cases, the thresholds set by the Water Management Plan are to be interepreted as total withdrawal limits for each location over the specified date range regardless of how many wells are supported by that intake.

For all purchased water intakes, determinations of water availability are made at the original source intake location. It is the responsibility of the Oil and Gas Operator, not the seller, to cease withdrawal of water from the seller when flows are less than the minimum gauge reading at the stream gauge referenced by the Water Management Plan in order to protect stream uses.

Note that the determinations made herein are based on the best available data, but it is impossible to predict water availability in the future. While the DEP has carefully established these minimum withdrawal thresholds, it remains the operator's responsibility to protect aquatic life at all times. Approval to withdrawal is contingent upon permission from the land owner. It is the responsibility of the operator to secure and maintain permission prior to any withdrawals.

The operator is reminded that 24-48 hours prior to withdrawing (or purchasing) water, DEP must be notified by email at DEP.water.use@wv.gov.

APPROVED SEP 0 9 2013

Source Summary WMP-01422 API Number: 047-095-02117 Operator: Jay-Bee Oil & Gas, Inc. Larry 3 Stream/River Source Middle Island Creek @ Ridgetop Capital Tyler Owner: Ridgetop Capital, LP Start Date **End Date** Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude: 11/1/2013 11/1/2014 2,100,000 39.47417 -80.878271 ☐ Regulated Stream? Ref. Gauge ID: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV Max. Pump rate (gpm): Min. Gauge Reading (cfs): 79.22 Min. Passby (cfs) 5,260 0.47 **DEP Comments:** This withdrawal site is located adjacent to The Jug (DNR Wildlife Management Area). While formally part of Middle Island Creek, this location is treated as ungauged. Source Indian Creek @ Donahue Withdrawal Site Tyler Owner: Cathleen @ Vicki Donahue Start Date **End Date** Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude: 2,100,000 11/1/2013 11/1/2014 39.443152 -80.809027 ☐ Regulated Stream? Ref. Gauge ID: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV 3.81 Max. Pump rate (gpm): 5,260 Min. Gauge Reading (cfs): 79.22 Min. Passby (cfs) **DEP Comments:**

o Source Indian Creek @ Ricketts Withdrawal Site Tyler Owner: Mark Ricketts

Start Date End Date Total Volume (gal) Max. daily purchase (gal) Intake Latitude: Intake Longitude:

11/1/2013 11/1/2014 2,100,000 39.436856 -80.799125

Regulated Stream? Ref. Gauge ID: 3114500 MIDDLE ISLAND CREEK AT LITTLE, WV

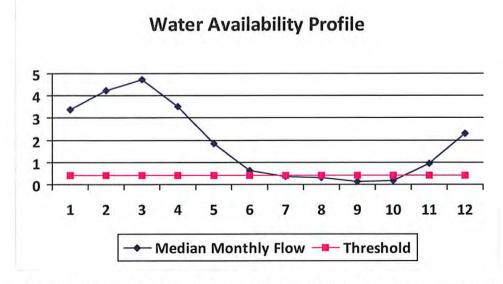
Max. Pump rate (gpm): 5,260 Min. Gauge Reading (cfs): 79.22 Min. Passby (cfs) 3.75

DEP Comments:

Source Detail

WMP-01422	API/ID Number:	047-095-02117	Operator:	Jay-Bee Oil 8	& Gas, Inc.
	La	rry 3			
	iddle Island Creek @ Ridg dgetop Capital, LP	etop Capital		Latitude: 39.4°	
	3.14 County:	Tyler		al end date: ource (gal):	
Reference Gaug 3114500 Drainage Area (sq. mi.)	MIDDLE ISLAND CRE 458.00	EEK AT LITTLE, WV	Gauge Thr	eshold (cfs):	45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	3.37	12.18	-8.51
2	4.24	12.18	-7.64
3	4.74	12.18	-7.13
4	3.52	12.18	-8.35
5	1.86	12.18	-10.02
6	0.65	12.18	-11.23
7	0.37	12.18	-11.51
8	0.30	12.18	-11.57
9	0.15	12.18	-11.72
10	0.19	12.18	-11.68
11	0.95	12.18	-10.93
12	2.32	12.18	-9.55



Min. Gauge Reading (cfs): Passby at Location (cfs):	79.22 0.46
Ungauged Stream Safety (cfs):	0.08
Headwater Safety (cfs):	0.08
Pump rate (cfs):	11.72
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	0.31

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Source Detail

WMP-01422 API/ID Number: 047-095-02117 Operator: Jay-Bee Oil & Gas, Inc.

Larry 3

ource ID: 23889 Source Name	Indian Creek @ Donahue Withdrawal Site Cathleen @ Vicki Donahue	Source Editione.	443152 .809027
Drainage Area (sq. mi.): ☐ Endangered Species? ✓ M ☐ Trout Stream? ☐ Ti ☐ Regulated Stream?	25.87 County: Tyler ussel Stream? er 3?	Anticipated withdrawal start date: Anticipated withdrawal end date: Total Volume from Source (gal): Max. Pump rate (gpm):	11/1/2013 11/1/2014 2,100,000 5,260
□ Proximate PSD?□ Gauged Stream?		Max. Simultaneou Max. Truck pump ra	

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	27.74	15.53	12.50
2	34.90	15.53	19.66
3	39.05	15.53	23.81
4	29.00	15.53	13.76
5	15.30	15.53	0.06
6	5.34	15.53	-9.90
7	3.02	15.53	-12.22
8	2.49	15.53	-12.75
9	1.27	15.53	-13.97
10	1.60	15.53	-13.64
11	7.82	15.53	-7.42
12	19.11	15.53	3.87

Water Availability Profile

Median Monthly Flow — Threshold

Min. Gauge Reading (cfs): Passby at Location (cfs):	79.22 3.81
Ungauged Stream Safety (cfs):	0.64
Headwater Safety (cfs):	0.64
Pump rate (cfs):	11.72
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	2.54

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

Source Detail

WMP-01422

API/ID Number:

047-095-02117

Operator:

Jay-Bee Oil & Gas, Inc.

Larry 3

23890 Indian Creek @ Ricketts Withdrawal Site Source Name Source ID: Mark Ricketts Source Longitude: -80.799125

County:

Source Latitude: 39.436856

HUC-8 Code:

5030201

Drainage Area (sq. mi.):

25.41

Tyler

Anticipated withdrawal start date:

11/1/2013

✓ Endangered Species?

✓ Mussel Stream?

Anticipated withdrawal end date:

11/1/2014

Trout Stream?

☐ Tier 3?

Total Volume from Source (gal):

2,100,000

Max. Pump rate (gpm):

5,260

Regulated Stream? Proximate PSD?

Max. Simultaneous Trucks: Max. Truck pump rate (gpm)

Gauged Stream?

3114500

MIDDLE ISLAND CREEK AT LITTLE, WV

420

Drainage Area (sq. mi.)

Reference Gaug

458.00

Gauge Threshold (cfs):

45

Month	Median monthly flow (cfs)	Threshold (+ pump	Estimated Available water (cfs)
1	27.25	15.47	12.03
2	34.28	15.47	19.06
3	38.35	15.47	23.14
4	28.48	15.47	13.26
5	15.02	15.47	-0.19
6	5.25	15.47	-9.97
7	2.97	15.47	-12.25
8	2.44	15.47	-12.77
9	1.25	15.47	-13.97
10	1.57	15.47	-13.65
11	7.68	15.47	-7.54
12	18.77	15.47	3.55

50 40 30 20 10

6

5

8

7

Median Monthly Flow - Threshold

9

Water Availability Profile

Water Availability Assessment of Location

Min. Gauge Reading (cfs): Passby at Location (cfs):	79.22 3.74
Ungauged Stream Safety (cfs):	0.62
Headwater Safety (cfs):	0.62
Pump rate (cfs):	11.72
Downstream Demand (cfs):	0.00
Upstream Demand (cfs):	0.00
Base Threshold (cfs):	2.50

"Threshold", as depicted in the chart above is meant only to indicate the calculated base threshold at the proposed withdrawal location. This value does not include the proposed pump rate or existing demand on the stream. Refer to the monthly breakdown above for a more complete estimation of water availability by month.

10

11

12

1

2

3

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Water Management Plan: Secondary Water Sources



WMP-01422

API/ID Number

047-095-02117

Operator:

Jay-Bee Oil & Gas, Inc.

Larry 3

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- •For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- •For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site impoundment

Source ID: 23891 Source Name RPT8 Centralized Freshwater Impoundment #1

Source start date:

11/1/2013

Source end date:

11/1/2014

Source Lat:

39.482507

Source Long: -80.785834

County

Tyler

Max. Daily Purchase (gal)

Total Volume from Source (gal):

5,000,000

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-910

WMP-01422 API/ID Number 047-095-02117 Operator: Jay-Bee Oil & Gas, Inc.

Larry 3

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

RPT8 Centralized Freshwater Impoundment #2 Source ID: 23892 Source Name Source start date: 11/1/2013

11/1/2014 Source end date:

39.482678 Source Long: -80.786906 County Tyler Source Lat:

5,000,000 Total Volume from Source (gal): Max. Daily Purchase (gal)

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-909

Indian Creek Centralized Freshwater Impoundment Source ID: 23893 Source Name 11/1/2013 Source start date: Source end date: 11/1/2014

> 39.437369 -80.796631 Tyler Source Lat: Source Long: County

5,000,000 Total Volume from Source (gal): Max. Daily Purchase (gal)

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-963

WMP-01422 API/ID Number 047-095-02117 Operator: Jay-Bee Oil & Gas, Inc.

Larry 3

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Recycled Frac Water

Source ID: 23894 Source Name Various 11/1/2013 Source start date:

11/1/2014 Source end date:

Source Lat: Source Long: County

Max. Daily Purchase (gal) Total Volume from Source (gal): 210,000

DEP Comments:

