

#### 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

#### PERMIT MODIFICATION APPROVAL

July 03, 2013

JAY-BEE OIL & GAS 1720 RT. 22 E UNION, NJ 70830

Re: Permit Modification Approval for API Number 9502098 , Well #: RPT 5-1

#### UPDATED ROAD ON PAD

#### Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith

Regulatory/Compliance Manager

Office of Oil and Gas



# JAY-BEE OIL & GAS, INC.

Receivou

JUL 1 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

95-02096 95-02097 95-02098/

RE: RPT5 Updated Plans

Steve Young,

June 27, 2013

Enclosed in this envelope are the updated plans for the RPT5, updating the road to the pads.

If you would have any further questions concerning this matter, please feel free to contact our office at the number listed below.

Sincerely,

Shane Dowell Office Manager

MODIFICATION NO. 1

Re Co! 15/2013

Approven: 7/2/2013

3570 Shields Hill Rd, Cairo, WV 26337 \* Phone 304-628-3111 \* Fax 304-628-3119

304 869 - 3811



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April 23, 2013

#### WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-9502098, 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: RPT 5-1

Farm Name: LeMASTERS, DWIGHT ET AL

API Well Number: 47-9502098

Permit Type: Horizontal 6A Well

Date Issued: 04/23/2013

Promoting a healthy environment.



#### 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. Failure to adhere to the specified permit 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.

# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

1) Well Operato	or: Jay-Bee O	I & Gas Inc		24610	095-Tyler	02-McElroy	Shirley 7.5'
	-			Operator ID	County	District	Quadrangle
2) Operator's W	Vell Number	RPT5-1		V	Vell Pad Nam	e: RPT5	
3 Elevation, cu	rrent ground	: 1275'	Ele	vation, proposed p	oost-construc	tion:	1258'
4) Well Type: (	(a) Gas Other (b) If Gas:	Shallow Horizontal	Oil	Deep			
5) Existing Pad	? Yes or No:	No					
	_		s), Anticipate	ed Thicknesses and	d Associated	Pressure(s):	
7) Proposed Tot 8) Formation at 9) Proposed Tot 10) Approximat 11) Method to I 12) Approximat 13) Approximat 14) Approximat 15) Does land co 16) Describe pro-	Total Vertice al Measured to Fresh Water Determine Fresh Esaltwater In Coal Seam to Pepth to Pontain coal s	al Depth: Depth: er Strata Depesh Water Depths: Depths: Ossible Voideams tributar	934' & 1924' 834-835' (coal mine, k	Record TYL 656-A  Earst, other): to, active mine?	None No		
17) Describe fra				1# per gallon, scale inhibitor	and bacteria preventio	on 1/4# per gallon 200	10 gallons 15% vol acid.
			•	le area, pits, etc, (	acres):	22.4 Acres	
19) Area to be d	isturbed for	well pad only	y, less access	road (acres):	6.4 acres		

RECEIVED
Office of Oil and Gas

APR 05 2013

WV Department of Environmental Protection 20)

#### CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)
Conductor	16	New	J55	40	30	30	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Fresh Water	11 3/4	New	J55	32	560	560	CTS +25%
Coal	- 1						
Intermediate	8 5/8	New	J55	24	2,000	2,000	CTS +15%
Production	5 1/2	New	P110	17	14,500	14,500	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		7			CI CI	
Liners			_			

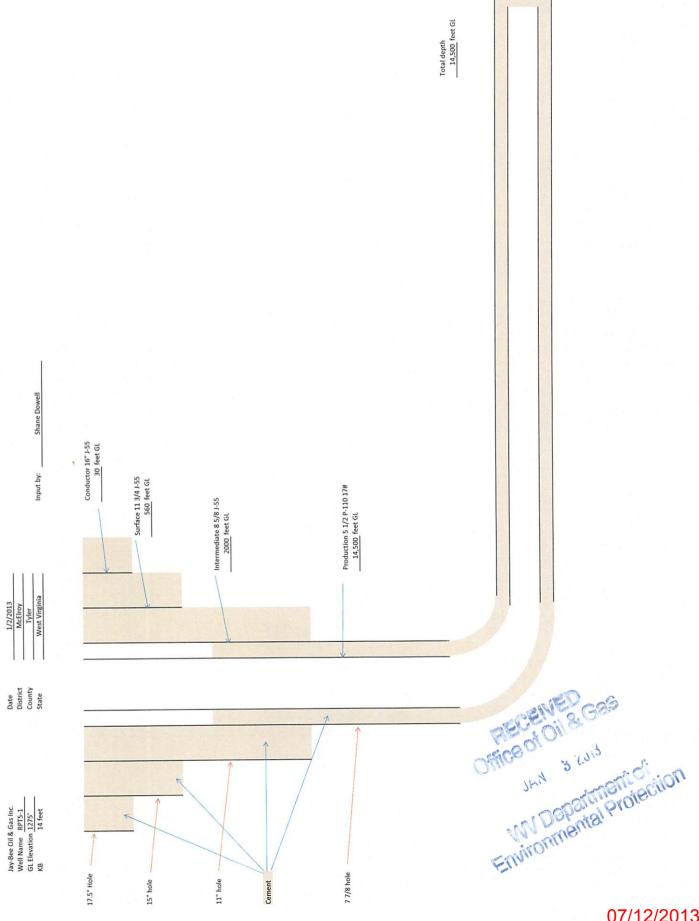
#### **PACKERS**

Kind:	N/A		
Sizes:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Depths Set:			

Mal 1-8-13

	ertical - Every 500' Bow Centralizer, and 50' from top of ground. Horizontal every 42' Spiral Centralizer, Curve - Every 84' Spiral Centralizer
-	
_	
_	
	Describe all cement additives associated with each cement type.
S	uperior Well Services - 15" hole for the 11 3/4 fresh water case, Class A Cement, 2% Calcium Chloride, 1/4# flak
-	
s	uperior Well Services - 11" hole for the 8 5/8 intermediate base, Class A Cement, 2% Calcium Chloride, 1/4# Super Flake, No Foam, Bentonite Super Fla
_	
	aker 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-
_	and riegilios . We have the large and the la
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_	
_	
	The state of the s
	Proposed borehole conditioning procedures.
,	de Hele
A	Air Hole
P	5" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.
<u> </u>	5" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.
<u> </u>	5" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.
<u> </u>	5" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.  1" hole for the 8 5/8 intermediate base - Circulate until clean with air. If soaping, slug then dry.
<u>/</u> 1	5" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.

\*Note: Attach additional sheets as needed.



### west virginia department of environmental protection



## Water Management Plan: Secondary Water Sources



WMP-00948

API/ID Number

047-095-02098

Operator:

Jay-Bee Oil & Gas, Inc.

RPT5-1

#### 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: 10813 Source Name

RPT8 Centralized Freshwater Impoundment #1

Source start date:

4/1/2013

Source end date:

4/1/2014

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

APPROVED FEB 1 9 2013

WMP-00948 API/ID Number 047-095-02098 Operator: Jay-Bee Oil & Gas, Inc.

RPT5-1

#### 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.

Source ID: 10814 Source Name RPT8 Centralized Freshwater Impoundment #2

Source start date:

4/1/2013

Source end date:

4/1/2014

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-909

#### **Recycled Frac Water**

Source ID: 10815 Source Name

McIntyre Pad; W701 Pad; Schulberg Pad; T1213

Source start date:

4/1/2013

Source end date:

4/1/2014

Max. Daily Purchase (gal)

Total Volume from Source (gal):

210,000

DEP Comments:

APPROVED FEB 1 9 2013

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

# CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name_Jay-Bee Oil & Gas Inc	OP Code 24610
Watershed Big Run Quadrangle	Shirtey 7.5'
Elevation 1275' (ground) 1258' (proposed) County 095-Tyler	District_02-McElroy
Description of anticipated Pit Waste: Drill Water and Various Formation Cuttings	1 1.0 Y Y
Do you anticipate using more than 5,000 bbls of water to complete the proposed	
Will a synthetic liner be used in the pit? Yes . If so, what mil.?	GOMII
Proposed Disposal Method For Treated Pit Wastes:  Land Application  Underground Injection (UIC Permit Number 2d08:  Reuse (at API Number other wells on same location  Off Site Disposal (Supply form WW-9 for disposal  Other (Explain Using Contract Haulers Magnum Hunter (API's	location)
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Brine -If oil based, what type? Synthetic, petroleum, etc. Additives to be used? Bentonite, Sait, Soda Ash	e Base Drilling Mud
Will closed loop system be used ? Possible Centrifuge	
Duit and in a disposal method? I gave in hit landfill removed offsite, etc. lan	d fill
-If left in pit and plan to solidify what medium will be used? CementLandfill or offsite name/permit number? Waste Management Meadowfill	lime, and sawoust, removed to landing
I certify that I understand and agree to the terms and conditions of on August 1, 2005, by the Office of Oil and Gas of the West Virginia Departs provisions of the permit are enforceable by law. Violations of any term or coor regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined an application form and all attachments thereto and that, based on my inquiry of the information, I believe that the information is true, accurate, and comples submitting false information, including the possibility of fine or imprisonment Company Official Signature  Company Official Title Office Manager	nd am familiar with the information submitted on this those individuals immediately responsible for obtaining etc. I am aware that there are significant penalties for
Subscribed and sworn before me this 2 day of Jonwan  Amull Of Bull  My commission expires Octobre 13, 2020	Notary Public
My commission expires Octobra 23, 2020	OFFICIAL SEAL Danielle L. Butler Notary Public State of West Virginia My Commission Expires October 23, 2020 125 Ash Tree Lane St. Mary's, WY 26170

Property Bound	lary A	Diversion	
Road	======	Spring	<b>○</b>
Existing Fence	——×——×——×—	—X—— Wet Spot	M. C.
Planned Fence	//	Drain Pipe w/ size in inches	
Stream	~ ~ ~ ~	~	
Open Ditch		Waterway —	
Rock	్త్రీన్రిస్త్రీన్	Cross Drain 77777	//////////////////////////////////////
		Artificial Filter Strip XXXXX	XXXXXXXXXXXXXXXXXX
North	N	Pit: Cut Walls	CITTUDE STATES
Buildings		Pit: Compacted Fill Walls	manufacture of the state of the
Water Wells	w	Area for Land Application	(-0-0-0-0)
Drill Sites	$\oplus$	of Pit Waste	
Fertilizer (10-20 Mulch_hay/2	0-20 or equivalent) 1/3 ton	lbs/acre (500 lbs minimum)Tons/acre	
		Seed Mixtures	
	Area I		Area II
Seed Type	lbs/acre	Seed Type	lbs/acre
Y-31	40	Orchard Grass	15
sike Clover	5	Alsike Clover	5
nnual Rye Grass	15		
- Inda Hyo Grado			
	ation,pit and proposed area for involved 7.5' topographic she		
	1		
	1.0		
lan Approved by:	14/10		
//			
//			
Plan Approved by:			
//			
//		Date: 1-8-13	

