

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

February 28, 2014

## WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-9502136, 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: SNEEZY 11 Farm Name: TESLOVICH, BRIAN API Well Number: 47-9502136 Permit Type: Horizontal 6A Well Date Issued: 02/28/2014

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. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACOE). Through this permit, you are hereby being advised to consult with USACOE regarding this proposed activity.
- 2. 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.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.



Reference ID: Sneezy 11 (10/17/2013) Status: New Permit ID: New/Pending Printed: Feb. 14, 2014 3:56 F		Reference ID: Sneezy 11 (10/17/2013)	Type: Horizontal 6A Well Permit ID: New/Pending Printed: Feb. 14, 2014 3:56 Pl
----------------------------------------------------------------------------------------------------------	--	--------------------------------------	--------------------------------------------------------------------------------------

### WW-6B: General and Location Information

API Number:	47-095-02136 (47)
Operator's Well Number:	Sneezy 11
Filing Fee:	C First Well on Pad   Subsequent Well on Pad  5,150.00
Well Pad Name:	Sneezy (D415) Pad
Surface Owner:	Brian Teslovich
Public Road Access:	McIntyre Fork Rd
Please attach each of the followin	ng as seperate documents:
Well Plat	
<ul> <li>Wellbore Schematic</li> </ul>	

County:	Tyler-xx	District:	McElroy-xx		
Quadrangle:	CENTER POINT	<b>~</b>			
Top Hole(UTM NA	ND83):				
Easting: 5	28363.6 Northing:	4364613.0	Zone: 17 🗾 💆		
Proposed Landing	Point(UTM):				
	28101.0 Northing:	4364430.8	Zone: 17 🗾 🛃		
Proposed Bottom	Hole(UTM):				
Easting: 5	28069.9 Northing:	4363444.7	Zone: 17 🗾 🛃		
Elevations (feet)	Elevations (feet) Current Ground: 1356 Proposed Post-Construction: 1346				
Well Type:	Gas	O Oil			
	C Underground Storage	C Other			
Will well be drilled more than 100 feet into the Onondaga Group? $ igsimes$ Yes $igsimes$ No					
Depth Type:	Shallow	C Deep			
Existing Pad?	C Yes	No			

## 02/28/2014

https://epermit.dep.wv.gov/webapp/\_dep/securearea/Application/templates/PrintApp.cfm?... 2/14/2014

Complete the following table.				
Target Formation	Depth-Top (ft)	Anticipated Thickness (ft)	Associated Pressure (psi)	
Marcellus	7500	40	3500	

#### WW-6B: Depth Specifics

Г

Г

Proposed Post-Construction Elevation:	1346		
Proposed Total Vertical Depth:	7500	(ft.)	
Formation at Total Vertical Depth:	Marcellus		
Proposed Total Measured Depth:	12400	(ft.)	
Proposed Total Horizontal Leg Length:	4900	(ft.)	
Method to Determine Fresh Water Depth:			
API's 47-095-02025 & 47-095-02 02294 for Freshwater Depth.	2024, for	Saltwater Depths, 47-	017-

Approximate Fresh Water Strata Depths	
456 (ft.)	

	Approximate Coal Seam Depths
N/A (ft.)	Coal Seam Name, if known:

	Approximate Depth to Possible Void(coal mine, karst, other)
(ft.)	Not Anticipated:

Approximate Saltwater Depths	
2090 (ft.)	

#### WW-6B: Well Work and Mine Details

Is proposed well location directly overlying or tributary to an active mine?

○ Yes ● No

If Yes, indicate name, depth, coal seam and owner of mine:

٦

٦

### Electronic Permitting Printing Module

Coal Seam: Mine Name:		Depth: Owner:			
Describe proposed v	well work, including the drilling and plu	igging back of an	y pilot hole.		
rig, we will conductor, fr	Drill and Stimulate a new Horizontal Well. Using a top hole rig, we will drill top hole to kick off point by drilling the conductor, freshwater and intermediate holes. Using a directional rig we will drill the production holes.				
				-	
	stimulating methods in detail, including	<b>-</b>	· · ·	ated max rate.	
300-350' per stage 8,500bbls of water, 150,000-400,000lbs of sand, friction reducer, 1# per gallon, scale inhibitor and bacteria prevention 1/4# per gallon 2000 gallons 15% vol acid.					
				-	
Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 6.2					
Area to be disturbed	l for well pad only, less access road (a	acres): 2.3			

#### WW-6B: FRAC Additives

Please select the chemical names of each additive used in your fracturing compounds.
You may opt to provide these compounds listed in the form of an attachment. $\ \square$ See Attached.

Chemical (CAS) Number	Name/Description	
07732-18-5	Water	<b>•</b>
00107-21-1	Ethylene Glycol	
00111-30-8	Glutaraldehyde	•
00064-17-5	Ethyl Alcohol	<b>~</b>
07647-01-0	Hydrochloric Acid	

	Please list any and all chemicals and compounds used not found in list above.	
CAS Number	Chemical/Compound Name	

14808-60-7	Sand	]
64742-47-8	Distillates (petroleum), hydrotreated light (Friction Reducer)	
10043-52-4	Calcium chloride	
7173-51-5	Didecyldimethylammonium chloride	
68424-85-1	Benzalkonium chloride	

#### WW-6B: Casing and Cementing

omplete the following table, adding as many rows of each <b>Type</b> as needed.								
Туре	Size (in)	New or Used		Grade	Weight per ft. (lb/ft)		age: For rilling	Intervals: Left in Well
Conductor -	16	New	J55	5	40	40		40
	Wellbore Dia	ameter (in)		Wall TI	nickness (in)		Burst Pre	ssure (psi)
	17 1/2			.495		300	00	
	Cement Ty	be	Yiel	d (cu. ft./sk)	Fillup - Cubic	Feet	Top of Cemen	
	Class A Cement		1.19		98.3		0	<b>v</b>
Туре	Size (in)	New or Used		Grade	Weight per ft. (lb/ft)		age: For rilling	Intervals: Left in Well
Fresh Water 💌	11 3/4	New	J55	5	32	506		506
	Wellbore Dia	ameter (in)		Wall TI	nickness (in)		Burst Pre	ssure (psi)
	15			.333		150	0	
	Cement Ty	be	Yiel	d (cu. ft./sk)	Fillup - Cubic	Feet	Top of Cemen	Circulated to Surface?
	Class A Cement		4.00					
	Ciass A Cement		1.26		239.93		0	
Туре	Size (in)	New or Used	1.26	Grade	239.93 Weight per ft. (lb/ft)	Foot D	0 age: For rilling	Intervals: Left in Well
Type	1		J55		Weight per ft.	Foot D 2000	age: For rilling	Intervals: Left in
	Size (in)	Used New		5	r Weight per ft. (lb/ft)	D	age: For rilling	Intervals: Left in Well
	Size (in)	Used New		5	Weight per ft. (lb/ft)	D	age: For rilling Burst Pre	Intervals: Left in Well
	Size (in) 8 5/8 Wellbore Dia	Used New ameter (in)	J5t	5 Wall Ti	Weight per ft. (lb/ft)	D 2000 250	age: For rilling Burst Pre	Intervals: Left in Well 2000 ssure (psi) Circulated to
	Size (in) 8 5/8 Wellbore Dia	Used New ameter (in)	J5t	Wall Ti .264	Weight per ft. (lb/ft) 24 nickness (in)	D 2000 250	age: For rilling Burst Pre 00 Top of	Intervals: Left in Well 2000 ssure (psi) Circulated to
	Size (in) 8 5/8 Wellbore Dia 11 Cement Typ	Used New ameter (in)	J55 Yiel	Wall Ti .264	Weight per ft. (lb/ft) 24 nickness (in) Fillup - Cubic	D 2000 250 Feet	age: For rilling Burst Pre 00 Top of Cemen	Intervals: Left in Well 2000 ssure (psi) Circulated to Surface?
Intermediate	Size (in) 8 5/8 Wellbore Dia 11 Cement Type Class A Cement	Used New ameter (in) De New or	J55 Yiel	5 Wall TI .264 d (cu. ft./sk) Grade	Weight per ft. (Ib/ft) 24 hickness (in) Fillup - Cubic 508.43 Weight per ft.	D 2000 250 Feet	age: For rilling Burst Pre 00 Top of Cemen 0 0 age: For rilling	Intervals: Left in Well 2000 ssure (psi) Circulated to Surface? Intervals: Left in
Intermediate  Type	Size (in) 8 5/8 Wellbore Dia 11 Cement Typ Class A Cement Size (in)	Used New ameter (in) De New or Used New	Yiel	5 Wall TI 264 d (cu. ft./sk) Grade	Weight per ft. (Ib/ft) 24 hickness (in) Fillup - Cubic 508.43 Weight per ft. (Ib/ft)	D 2000 250 Feet Foot	age: For rilling Burst Pre 00 Top of Cemen 0 age: For rilling	Intervals: Left in Well 2000 ssure (psi) Circulated to Surface? Intervals: Left in Well
Intermediate  Type	Size (in) 8 5/8 Wellbore Dia 11 Cement Typ Class A Cement Size (in) 5 1/2	Used New ameter (in) De New or Used New	Yiel	5 Wall TI 264 d (cu. ft./sk) Grade	Weight per ft. (Ib/ft) 24 hickness (in) Fillup - Cubic 508.43 Weight per ft. (Ib/ft)	D 2000 250 Feet Foot	age: For rilling Burst Pre 00 Top of Cemen 0 age: For rilling 0 Burst Pre	Intervals: Left in Well 2000 ssure (psi) Circulated to Surface? Intervals: Left in Well 12400
Intermediate  Type	Size (in) 8 5/8 Wellbore Dia 11 Cement Typ Class A Cement Size (in) 5 1/2 Wellbore Dia	Used New ameter (in) De New or Used New ameter (in)	Yiel	5 Wall TI 264 d (cu. ft./sk) Grade 10 Wall Ti	Weight per ft. (Ib/ft) 24 hickness (in) Fillup - Cubic 508.43 Weight per ft. (Ib/ft)	D 2000 Feet Foot 1240	age: For rilling Burst Pre 00 Top of Cemen 0 age: For rilling 0 Burst Pre	Intervals: Left in Well 2000 ssure (psi) Circulated to Surface? Intervals: Left in Well 12400 ssure (psi) Circulated to

#### WW-6B: Centralizers, Cement, Borehole

Describe proposed borehole conditioning procedures.

## 02/28/2014

https://epermit.dep.wv.gov/webapp/\_dep/securearea/Application/templates/PrintApp.cfm?... 2/14/2014

#### WW-6B: Packers

Will Packers be Used? O Yes O No If Yes, complete the following:

Kind	Sizes	Depths Set

#### WW-9: Fluids, Cuttings Disposal and Reclamation Plan

State:	West Virginia	County: <u>Tyler-xx</u>
District:	<u>05</u>	Quadrangle: CENTER POINT

## 02/28/2014

https://epermit.dep.wv.gov/webapp/ dep/securearea/Application/templates/PrintApp.cfm?... 2/14/2014

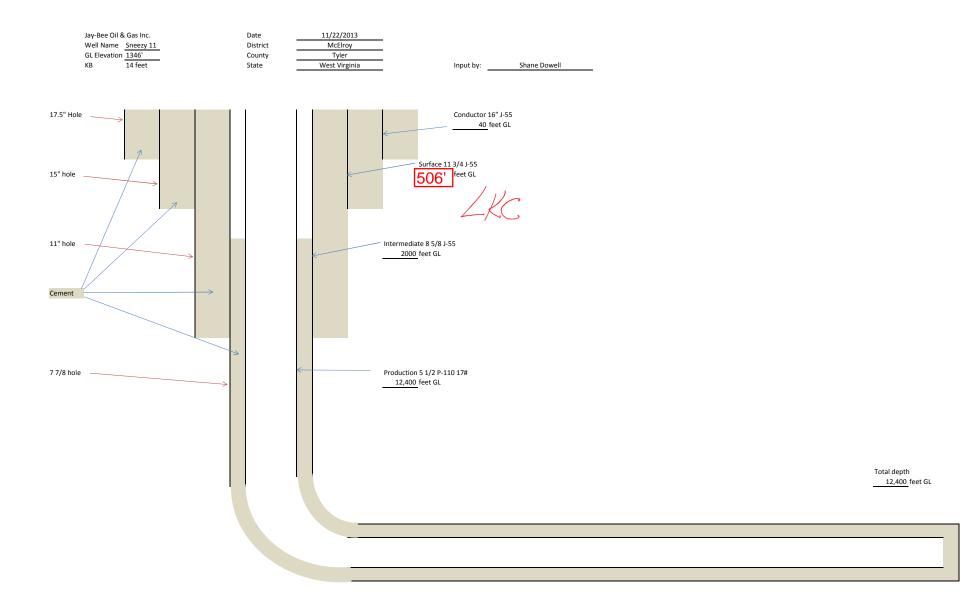
### Electronic Permitting Printing Module

one: <u>17</u> lorthing: 4364613.0 Easting: 528363.6	
PI Number: <u>47-095-02136</u> Operator Well Number: Sneezy 11	
o you anticipate drilling/redrilling well work?	
• Yes • No	
Nill a pit be used for plugging activities? C Yes <ul> <li>No</li> </ul> <li>If so, please describe anticipated pit waste:</li>	
Drill Cuttings - Air Drilling	~
	Ŧ
Vill a synthetic liner be used in the pit? • Yes • No If so, what ml.?	
Proposed Disposal Method For Treated Pit Waste Water:	
Underground Injection (UIC Permit Number 47-085-09721	)
Reuse (at API Number	
	÷ )
✓ Other (explain)	
Using Contract Haulers Norte/CES (API's 47-085-05151)	A T
Vill closed loop system be used? <ul> <li>Yes</li> <li>No</li> </ul>	
Vill closed loop system be used?  Yes No If so, describe:	
	•
If so, describe:	× T
If so, describe:	A T
lf so, describe: Centrifuge System (Boss, Newalta) Possible	× 7
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc.	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc. Water Based	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc. Water Based Additives to be used in drilling medium?	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc. Water Based	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc. Water Based Additives to be used in drilling medium?	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc. Water Based Additives to be used in drilling medium? Bentonite, Salt, Soda Ash	
If so, describe: Centrifuge System (Boss, Newalta) Possible Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Brine Base Drilling Mud f oil based, what type? Synthetic, petroleum, etc. Water Based Additives to be used in drilling medium?	

Removed Offsite (name/permit number?) Meadowfill/Permit 101219WV
 Other: (please explain)

	Prop	osed Revegetation Treatment:			
Acres Disturbed:	<u>6.2</u>	Prevegetation pH:	6.8		
Lime Tons/acre to	correct to pH: 3				
Fertilizer (10-20-20	or equivalent): 750	lbs/acre			
Mulch	hay 2000 lbs/acre				
Comments:				*	
Attach a Reclamation Plan/Drawing					

Seed Mixtures				
Area Type	Seed Type	lbs/acre		
Permanent -	KY-31	20		
Permanent -	Creeping Red Fescue	30		
Permanent -	Lathco Flat Pea/Perennial Ryegrass	30		
Temporary 💌	Annual Ryegrass	40		



### JAY –BEE OIL & GAS INC 3570 SHIELDS HILL RD CAIRO, WV 26337 OFFICE (304) 628-3111 FAX (304) 628-3107

### WELL SITE DRILLING PROCEDURES AND SITE SAFETY PLAN Per 35CSR8/§22-6A

(Any changes or modifications to previously approved plans must be approved by the West Virginia Department of Environmental Protection - Office of Oil and Gas)

A copy of this plan will be provided to the local emergency planning committee or county emergency services offices at least 7 days prior to land disturbance from well work.

Well Name	Sneezy 11
Well Pad	Sneezy (D415) Pad
Latitude/Longitude	NAD83- Lat. 39.430505 Long80.670617
Location of Access Road	From WV 23 (Mile Point 12.9), .4 miles east on Broad Run, 1.9 east miles north on McIntyre Fork Rd.
Detail of Actual Well Work	Drill and Stimulate a New Horizontal Well.
Detail of Completion and Production Activities	<u>Fracturing/ Stimulating Methods</u> 300-350' per stage 8,500bbls of water, 150,000 – 400,000lbs of sand, friction reducer, 1# per gallon, scale inhibitor, and bacteria prevention ¼# per gallon 2000 gallons 15% vol acid
Directions to Well	From WV 18 and WV23 intersection, take WV 23 east for 12.9 miles. Turn left onto Broad Run Rd, and follow east for .4 miles. Turn left onto McIntyre Fork and follow north for 1.9 miles. Lease road is on right.
Prevailing Wind Direction	South/ South East

#### SITING STANDARDS

# west virginia department of environmental protection



Sneezy 11

#### 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

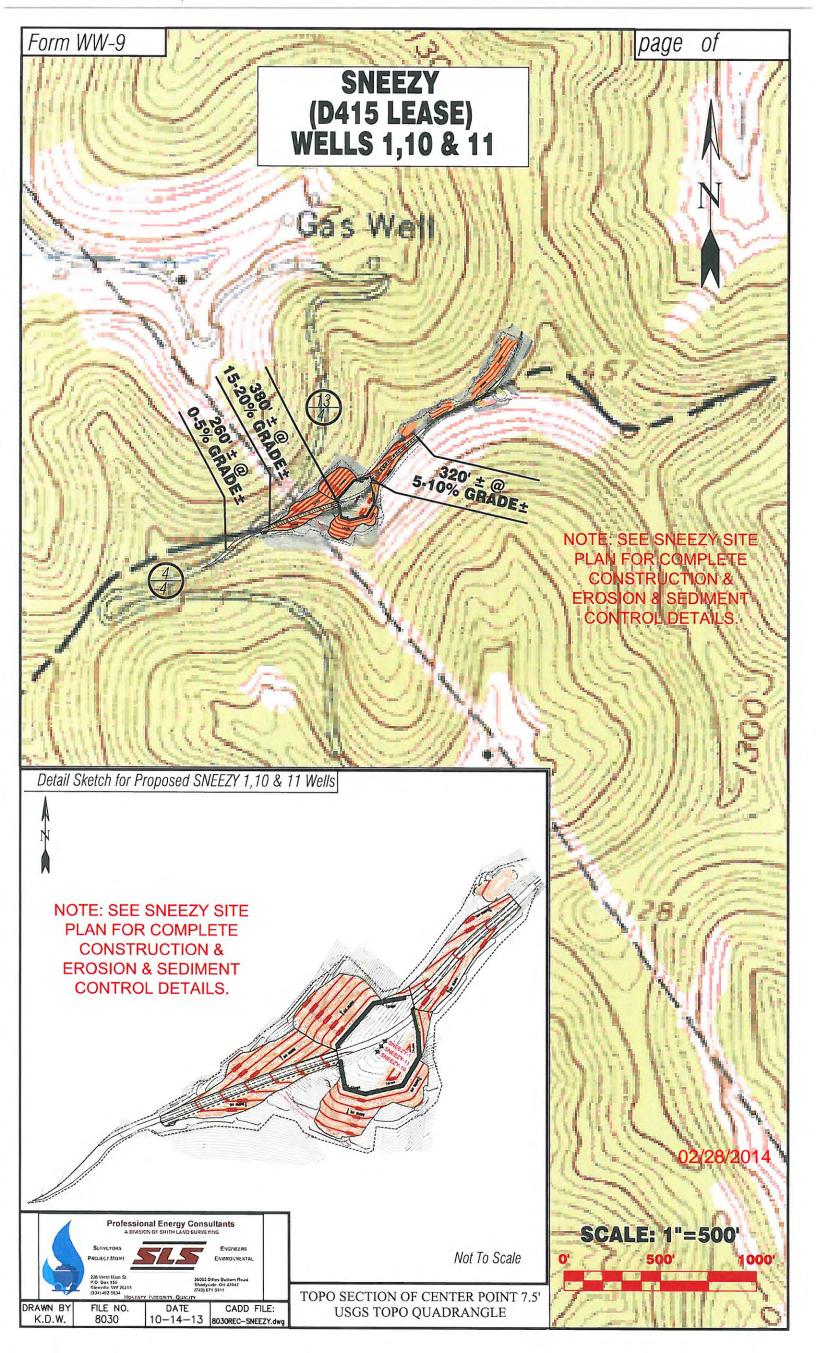
Source ID:	31663	Source Name	e McIntyre Centra	ilized Freshwate	r Impoundment	Source start date: Source end date:	4/1/2014 4/1/2015
		Source Lat:	39.435889	Source Long:	-80.667583	County	Tyler
		Max. Daily	Purchase (gal)		Total Volu	me from Source (gal):	7,854,000
	DEP Co	omments:	095-FWC-00006				

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-573

APPROVED DEC 1 8 2013





	FORM WW 6	-1,162'-
OR DWELLINGS WERE FOUND WITHIN 625 FEET OF CENTER OF PROPOSED WELL PAD.       Image: Center of Proposed Well Pad.         ITHE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELLIFF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.       (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. DATE	SINCE 27-11 TOP HOLE STATE PLANE COORDINATES N. 341,083.3 E. 1689,346.8 UNANTA L. WEEDON TOT32 ACRESS DAVID FEREBLE COMPLEXE SI ACRESS DAVID FEREBLE COMPLEXE SI ACRESS AUVY COMMUNITY 249 ACRESS AUVY COMMUNITY 240 ACRESS AUVY COMMUNITY 250 ACRESS AUVY COMMUNITY 250 ACRESS AUVY COMMUNITY 250 ACRESS AUVY ACRESS AUVY AUVY AUVY AUVY AUVY AUVY AUVY AUVY	
FORMATION PERFORATE NEW FORMATION DILICAND ADANDON OLEAN OUT THE FEELUE	ITHE 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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.         P.S. 677         MINIMUM DEGREE OF ACCURACY         1 / 200         FILE NO.         8030PSNEE         OF ELEVATION         WELL         TYPE:         OIL         GAS_X         INJECTION         SURFACE OWNER         BALIN L. TESLOVICH         ROYALTY OWNER         WR. MCINTYRE HEIRS ET AL         PROPOSED WORK:         DRILL         X         CONVERT       DRILL DEEPER	MARE SET         1" = 200'         (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.         DATE       DECEMBER 09       20       13         No. 677       *       OPERATORS WELL NO.       SNEEZY-11         API       WELL       47       95       -       02.136         ONAL       SUMMENT       API       WELL       47       -       95       -       02.136         ONAL       SUMMENT       STATE       COUNTY       PERMIT       -       02.136       PERMIT         OO       STATE       OUNTY       PERMIT       -       02.136       PERMIT         DO       STATE OF WEST VIRGINIA       DIVISION OF ENVIRONMENTAL PROTECTION       PERMIT       -       -         DO       STATE OF OIL AND GAS       OFFICE OF OIL AND GAS       -       -       -         IF       "GAS" PRODUCTION_X       STORAGE       DEEP       SHALLOW_X       -         IF       QUADRANGLE       CENTER POINT 7.5'       OP       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -

Ą