

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

July 24, 2013

WELL WORK PERMIT

Rework/Horizontal 6A Well

This permit, API Well Number: 47-9703791, issued to CNX GAS COMPANY LLC , 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: ALT8BHS

Farm Name: WOODY, D. J., ET AL

API Well Number: 47-9703791

Permit Type: Rework/Horizontal 6A Well

Date Issued: 07/24/2013

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. <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

W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

			an	00	20
1) Well Operator: Cr	IX Gas Company LLC	494458046	Upshur	Washington	Alton
_		Operator ID	County	District	Quadrangle
2) Operator's Well Nu	mber: ALT8BHS Drill Deeper - AP	PI# 47-097-3791	Well Pad Na	me: ALT8HS	
3 Elevation, current g	round: 2460'	Elevation, propose	d post-constru	ction:	2460'
4) Well Type: (a) Gas Oth					
(b) If C	Gas: Shallow Horizontal	Deep _		-	
5) Existing Pad? Yes	or No: Yes				
	rmation(s), Depth(s), Antici 90, Thickness - 95', Pressure - 2500#	pated Thicknesses a	and Associated	d Pressure(s):	
11) Method to Determ 12) Approximate Salt 13) Approximate Coa 14) Approximate Dep 15) Does land contain 16) Describe proposed	Vertical Depth: asured Depth: h Water Strata Depths: ine Fresh Water Depth: water Depths: Seam Depths: h Vone Anticipation of the Possible Void (coal mir coal seams tributary or adjact well work: D - Marcellus: Marcellus 12305' None Anticipation 105', 305' 1	ne, karst, other): cent to, active mine te new horizontal Marcellus v	None Anticipa	d to a TMD of 12305	
	g/stimulating methods in det e stages divided over the lateral length of the		ent upon engineering	design. Slickwater fra	cturing technique will be
diffized on each stage using s	and, mater, and onemicals.				
				- No	
18) Total area to be di	sturbed, including roads, sto	ckpile area, pits, etc	c, (acres):	10 Acres	3
19) Area to be disturb	ed for well pad only, less acc	cess road (acres):	10 Acres	047	No.

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	20"	N	L.S.	81.3#	40'	40'	CTS w/ 68sks Class A type cement
Fresh Water	13 3/8	N	J-55	54.5#	660'	660'	CTS w/ 435sks Class A Type Cement
Coal	9 5/8	N	J-55	36#	2001'	2001'	CTS w/ 640sks Class A Type Cement
Intermediate	7"	N	N-80	23#	5533'	5533'	CTS w/ 750sks Class A Type Cement
Production	4 1/2	N	P-110	11.6#	12305'	12305'	2200 cu. ft. w/ 50/50 POZ Lead & Class A Tail
Tubing	2 3/8	N	J-55	4.7#	7250'	7250'	
Liners							

Bill Hatheld 3/26/13

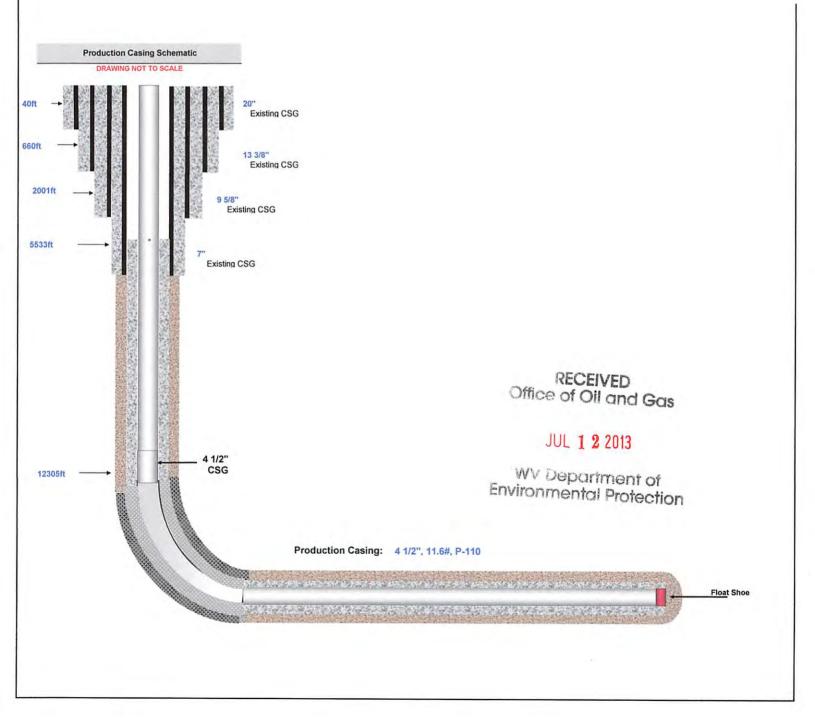
TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	26"	0.438	2110	Class A Type	1.18
Fresh Water	13 3/8"	17 1/2"	0.380	2730	Class A Type	1.39
Coal	9 5/8"	12 3/8"	0.352	3520	Class A Type	1.18
Intermediate	7"	8 3/4"	0.317	6340	Class A Type	1.18
Production	4 1/2"	6 1/2"	0.250	10690	Class A Type	1.26
Tubing	2 3/8"	6 1/2"	0.190	7700		((i)
Liners					-01	20

PACKERS

Kind:	None		1
Sizes:	None		
Depths Set:	None		O. C.



ALT-8B-HS Casing Schematic



Describe centralizer placement for each casing string.	Conductor - No centralizers used. Fresh Water &
Coal - Bow spring centralizers on first joint then every fourth join	nt to 100 feet from surface. Intermediate - Bow spring
centralizers one on the first two joints and every forth joint until	inside surface casing. Production - Rigid bow spring
centralizer on first joint then every 2 casing joints (free floating)	through the lateral and the curve.
(Note: cementing the 5 1/2" casing completely in open hole lat	eral and curve.)
) Describe all cement additives associated with each cemer	nt type. Conductor - 2% CaCl2.
Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Produ	uction - 2.6% Cement extender, 0.7% Fluid loss additive
0.5% High Temperature Retarder, 0.2% Friction Reducer	
7-1-F	uctor - The hole is drilled w/ air and casing ran in air.
Apart from insuring the hole is clean via air circulation at TD, there	are no other conditioning procedures. Fresh Water/Coat -
Apart from insuring the hole is clean via air circulation at TD, there The hole is drilled w/ air and casing is ran in air. Once casing	are no other conditioning procedures. Fresh Water/Coat- is on bottom, the casing shoe will be cleared with fres
Apart from insuring the hole is clean via air circulation at TD, there The hole is drilled w/ air and casing is ran in air. Once casing water and gel prior to cementing. Intermediate - The hole is drilled.	are no other conditioning procedures. Fresh Water/Coaties on bottom, the casing shoe will be cleared with frestilled w/ air and casing is ran in air. Once casing is or
Apart from insuring the hole is clean via air circulation at TD, there The hole is drilled w/ air and casing is ran in air. Once casing	are no other conditioning procedures. Fresh Water/Coaties on bottom, the casing shoe will be cleared with frestilled w/ air and casing is ran in air. Once casing is or
Apart from insuring the hole is clean via air circulation at TD, there The hole is drilled w/ air and casing is ran in air. Once casing water and gel prior to cementing. Intermediate - The hole is drilled.	are no other conditioning procedures. Fresh Water/Coat is on bottom, the casing shoe will be cleared with fres rilled w/ air and casing is ran in air. Once casing is or prior to cementing. (Note: Drilling soap may be utilized.)
Apart from insuring the hole is clean via air circulation at TD, there The hole is drilled w/ air and casing is ran in air. Once casing water and gel prior to cementing. Intermediate - The hole is de bottom, the casing shoe will be cleared with fresh water and gel	are no other conditioning procedures. Fresh Water/Coat is on bottom, the casing shoe will be cleared with fres rilled w/ air and casing is ran in air. Once casing is or prior to cementing. (Note: Drilling soap may be utilized the exception of the conductor). Production - The hol

*Note: Attach additional sheets as needed.

The Calling The State of the St

97-03791

Cement Additives

- Conductor 2% CaCl2
- Freshwater/Coal 2% CaCl2
- Intermediate 2% CaCl2
- Production
 - o 2.6% Cement extender
 - o 0.7% Fluid Loss Additive
 - o 0.5% High Temperature Retarder
 - o 0.2% Friction Reducer

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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 CNX Gas Company LLC		OP Code 494458046	-1
Watershed Panther Creek	Qua	adrangle Alton	_
Elevation 2,459.5'	County_Upshur	District_Washington	_
Description of anticipated Pit Waste: Wat			_
Do you anticipate using more than 5,000 b	obls of water to complete the	e proposed well work? Yes X No No	
Will a synthetic liner be used in the pit?	Yes If so, w	vhat mil.? 60 mil	
Reuse (at API Off Site Dispos	on njection(UIC Permit Numb))
Drilling medium anticipated for this well? -If oil based, what type? Synthet Additives to be used? Bactericide, Polymers Will closed loop system be used? No	ic, petroleum, etc. N/A	etc. Air and water based mud	
Drill cuttings disposal method? Leave in	nit landfill removed affeita	a eta Landfill	
-If left in pit and plan to solidify	what medium will be used?		
on August 1, 2005, by the Office of Oil as provisions of the permit are enforceable be or regulation can lead to enforcement actic. I certify under penalty of law to application form and all attachments there the information, I believe that the information submitting false information, including the Company Official Signature	nd Gas of the West Virginia y law. Violations of any term on. that I have personally exampte and that, based on my inconation is true, accurate, and the possibility of fine or impris	tions of the GENERAL WATER POLLUTION PERM a Department of Environmental Protection. I understart or condition of the general permit and/or other applemined and am familiar with the information submitted under those individuals immediately responsible for discomplete. I am aware that there are significant personment.	nd that the licable law ed on this r obtaining
Company Official (Typed Name) Jeremy J	ones		_
Company Official Title Designated Agent G	eneral Manager WV Gas Operatio	ions	<u>e</u> ,
Subscribed and sworn before me this 22 Kelly G. E My commission expires Septer	ddy	STATE OF WEST VIRGINIA	1013

Property Boundary	Diversion	
Road ======	== = = Spring	○
Existing Fence ———————————————————————————————————	XX Wet Spot	mary
Planned Fence///	// Drain Pipe w/ size in inches	
Stream	~~	
Open Ditch	Waterway	
Rock OOOOO		
North N		***************************************
Buildings	Pit: Cut Walls	ELL LINE
	Pit: Compacted Fill Walls	ymretinet.
Water Wells (W) Drill Sites	Area for Land Application of Pit Waste	0 0 0 0
oposed Revegetation Treatment: Acres Disturbe	ed 10.08 Prevegetation p	oH 6.5
Lime _according to PH test Tons/acre or to c		771
Tons/acre of to C	contect to pir	
Fertilizer (10-20-20 or equivalent)50	lbs/acre (500 lbs minimum)	
Mulch Hay or Straw	2 Tons/acre	
Mulch Hay or Straw	Tono do to	
Mulch Hay or Straw	Z Tons/acre Seed Mixtures	
Area I	Seed Mixtures	rea II
	Seed Mixtures	rea II lbs/acre
Area I	Seed Mixtures	
Area I Seed Type lbs/acre	Seed Mixtures A Seed Type	lbs/acre
Area I Seed Type lbs/acre Orchard Grass 25	Seed Mixtures A Seed Type Orchard Grass	lbs/acre 25
Area I Seed Type lbs/acre Orchard Grass 25 Birdsfoot Trefoil 15	Seed Mixtures A Seed Type Orchard Grass Birdsfoot Trefoil	1bs/acre 25 15
Area I Seed Type 1bs/acre Orchard Grass 25 Birdsfoot Trefoil 15 Ladino Clover 10	Seed Mixtures A Seed Type Orchard Grass Birdsfoot Trefoil	1bs/acre 25 15
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Area I Seed Type Ibs/acre Orchard Grass 25 Birdsfoot Trefoil 15 Ladino Clover 10 ttach: rawing(s) of road, location,pit and proposed area notocopied section of involved 7.5' topographic s an Approved by: Bill Hotfield	Seed Mixtures A Seed Type Orchard Grass Birdsfoot Trefoil Ladino Clover for land application.	1bs/acre 25 15
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west virginia department of environmental protection



Water Management Plan: Primary Water Sources



WMP-01213

API/ID Number:

047-097-03791

Operator:

Consol Energy - WV

ALT8BHS

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 JUN 0 6 20131

Source Summary

WMP-01213

API Number:

047-097-03791

Operator:

Consol Energy - WV

ALT8BHS

Stream/River

Buckhannon River @ Consol Energy Withdrawal Site Source

Owner:

Consol Energy

Start Date

End Date

Total Volume (gal)

Max. daily purchase (gal)

Intake Latitude: Intake Longitude:

5/1/2013

5/1/2014

5,229,000

38.803115

-80.206603

Regulated Stream?

Ref. Gauge ID:

3052120

Buckhannon River at Alton WV

Max. Pump rate (gpm):

1,470

Min. Gauge Reading (cfs):

33.78

Min. Passby (cfs)

30.15

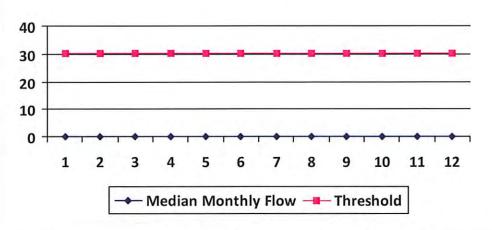
DEP Comments:

Source Detail

	AL	TODLIC		
		T8BHS		
	annon River @ Conso I Energy	l Energy Withdrawa	Source Latitude: 38. Source Longitude: -80	
HUC-8 Code: 5020001 Drainage Area (sq. mi.): 93.62 □ Endangered Species? □ Mussel Str ☑ Trout Stream? □ Tier 3? □ Regulated Stream? □ Proximate PSD? ☑ Gauged Stream?		Upshur	nticipated withdrawal start date: nticipated withdrawal end date: Total Volume from Source (gal): Max. Pump rate (gpm): Max. Simultaneon	
Reference Gaug 3052120 Drainage Area (sq. mi.) 94.	Buckhannon River at 70	t Alton WV	Gauge Threshold (cfs):	30.5

Month	Median monthly flow (cfs)	Threshold (+ pump	<u>Available</u> water (cfs)
1	0.00	33.43	-
2	0.00	33.43	
3	0.00	33.43	-
4	0.00	33.43	700
5	0.00	33.43	
6	0.00	33.43	
7	0.00	33.43	Cq.
8	0.00	33.43	
9	0.00	33.43	- 9
10	0.00	33.43	1.2
11	0.00	33.43	0.75
12	0.00	33.43	-





Water	Availability	Assessment	of	Location

3.28 0.00 0.00
3.28
0.00
0.00
0.00
0.15

"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.

west virginia department of environmental protection



Water Management Plan: Secondary Water Sources



WMP-01213

API/ID Number

047-097-03791

Operator:

Consol Energy - WV

ALT8BHS

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: 17801 Source Name Alton 1 Freshwater Impoundment

Source start date:

5/1/2013

Source end date:

5/1/2014

Source Lat: 38

38.794961 Source Long:

-80.184542

County

Upshur

Max. Daily Purchase (gal)

Total Volume from Source (gal):

5,229,000

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-194

WMP-01213 API/ID Number 047-097-03791 Operator: Consol Energy - WV

ALT8BHS

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: 17802 Source Name Alton 2 Freshwater Impoundment

Source start date:

5/1/2013

Source end date:

5/1/2014

Source Lat: 38.806146

Source Long: -80.195108

County

Upshur

Max. Daily Purchase (gal)

Total Volume from Source (gal):

5,229,000

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-195

Recycled Frac Water

Source ID: 17803 Source Name Various

Source start date:

5/1/2013

Source end date:

5/1/2014

Source Lat:

Source Long:

County

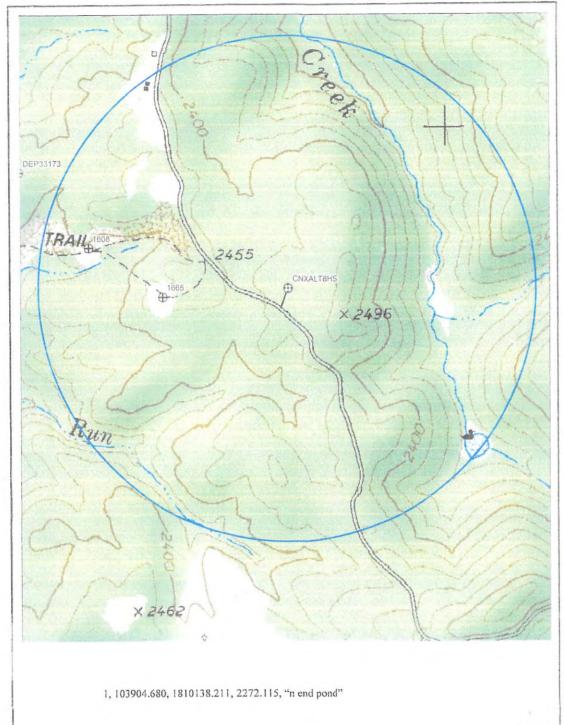
Max. Daily Purchase (gal)

Total Volume from Source (gal):

5,229,000

DEP Comments:

97-379



97-03791 D ALT8BHS CNX GAS COMPANY LLC

PAD NAME: ALT8HS

COORDINATE BASIS NAD27 WV N STATE PLANE

P. O. Box 1248
Jane Lew, WV 26378

PLAT SHOWING WATER PURVEYORS WITHIN 2,500 FEET OF THE ALT8HS PAD CENTER

DISTRICT COUNTY STATE Washington Upshur WV

SCALE

1" = 733.33 ft.

DWG NO.

alt8wtrpur

DATE

Oct. 22, 2012

CNX Gas Company LLC

LAND SURVEYING SERVICES 21 Cedar Lane Bridgeport, WV 26330 304-842-2018

