

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

April 07, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101794, issued to CHEVRON APPALACHIA, 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: TAYLOR B 3H

Farm Name: WILLIAMS OHIO VALLEY MIDS

API Well Number: 47-5101794

Permit Type: Horizontal 6A Well

Date Issued: 04/07/2015

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 (USACE). Through this permit, you are hereby being advised to consult with USACE 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.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operat	or: Chevron	Appalachia, LLC	49449935	51	Clay	Glen Easton, WV
-			Operator ID	County	District	Quadrangle
2) Operator's V	Well Number: 3	ВН	Well Pa	d Name: Tay	lor B	
3) Farm Name	/Surface Owner	Williams Ohlo Valley Mids	Public Ros	ad Access: C	R 17 Fork Rid	ge Road
4) Elevation, co	urrent ground:	1222' E	Elevation, proposed	post-construc	tion: 1222	2'
5) Well Type	(a) Gas Other	Oil _	Und	erground Stor	rage	
	(b)If Gas S	hallow <u></u>	Deep			
6) Existing Pac		lorizontal <u>■</u> 'es	····	g1	h 10/15	KY .
	rget Formation 525', 49' - 0.64 ps		cipated Thickness a	and Associate	d Pressure(s)	
8) Proposed To	tal Vertical De	pth: 6533'				
9) Formation a	t Total Vertical	Depth: Marcellus	5			
10) Proposed T	otal Measured	Depth: 15,309'				
11) Proposed H	Iorizontal Leg 1	Length: 8094'				
12) Approxima	te Fresh Water	Strata Depths:	524' GL			-
13) Method to	Determine Fres	h Water Depths:	2 mi radius offset we	lls, freshwater v	vells, and frest	water base level
14) Approxima	ite Saltwater De	epths: 1855', 2345	5'-1820' KB: Francis 1	V offset well		
15) Approxima	te Coal Seam I	Depths: 765' GL				
16) Approxima	te Depth to Pos	ssible Void (coal m	nine, karst, other):	NA - Solid coal	anticipated	
, <u>.</u>		on contain coal sea to an active mine?	ums Yes	N	o 🗸	
(a) If Yes, pro	ovide Mine Info	o: Name:				
		Depth:				
		Seam:				
		Owner:				

3H 4705101794

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	New			40'	40'	141.8
Fresh Water	13-3/8"	New	J-55	54.5#	600'	600'	691.0
Coal							
Intermediate	9-5/8"	New	N-80	40#	2,240'	2,240'	905.0
Production	5-1/2"	New	P-110	20#	15,309	15,309	3876.0
Tubing							
Liners							

Xe 10/15/14

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"				
Fresh Water	13-3/8"	17-1/2"	0.380"	2,730 psi	Class A	1.18
Coal						
Intermediate	9-5/8"	12-1/4"	0.395"	5,750 psi	Class A	1.29
Production	5-1/2"	8-1/2"	0.361"	12,640 psi	Class A	1.61
Tubing						
Liners						

PACKERS

Kind:	None		
Sizes:			
Depths Set:			

4705101794

19) Describe proposed well work, including the drilling	ng and plugging back of any pilot hole:
	g to surface covering the fresh water. Drill 12.25" hole to 2,240' Big Injun. Drill 8 1/2" hole to KOP at 5,688. Drill 8 1/2" curve action casing and cement back to surface'.
20) Describe fracturing/stimulating methods in detail,	including anticipated max pressure and max rate:
Chevron will utilizing plug and perf method with 40 stages u	sing 8,572 bbl of fluid and 315,000 lbm of sand per stage
21) Total Area to be disturbed, including roads, stocky	nile area nits etc. (acres). 18.3
22) Area to be disturbed for well pad only, less access	4.0
23) Describe centralizer placement for each casing str.	
	Vater string and intermediate. The production string will have two
24) Describe all cement additives associated with each	n cement type:
cement, 10% CaCl2, Salt, and flake. The Production cemer	, 3% CaCl2, and flake. The intermediate will contain class A nt will have a lead and tail cement. The lead will contain class A The tail will contain class A cement, Calcium Carbonate, KCl, er.
25) Proposed borehole conditioning procedures:	
	ing point has been reached on all hole sections and until uniform
That properties are achieved.	Modelyad
	NOV 1 4 2014

*Note: Attach additional sheets as needed.

Office of Oil and Gas
WV Dept. of Environmental Protection

Cement Additives

Water String the blend will contain class A cement, 3% CaCl2, and flake.

The intermediate will contain class A cement, 10% CaCl2, Salt, and flake.

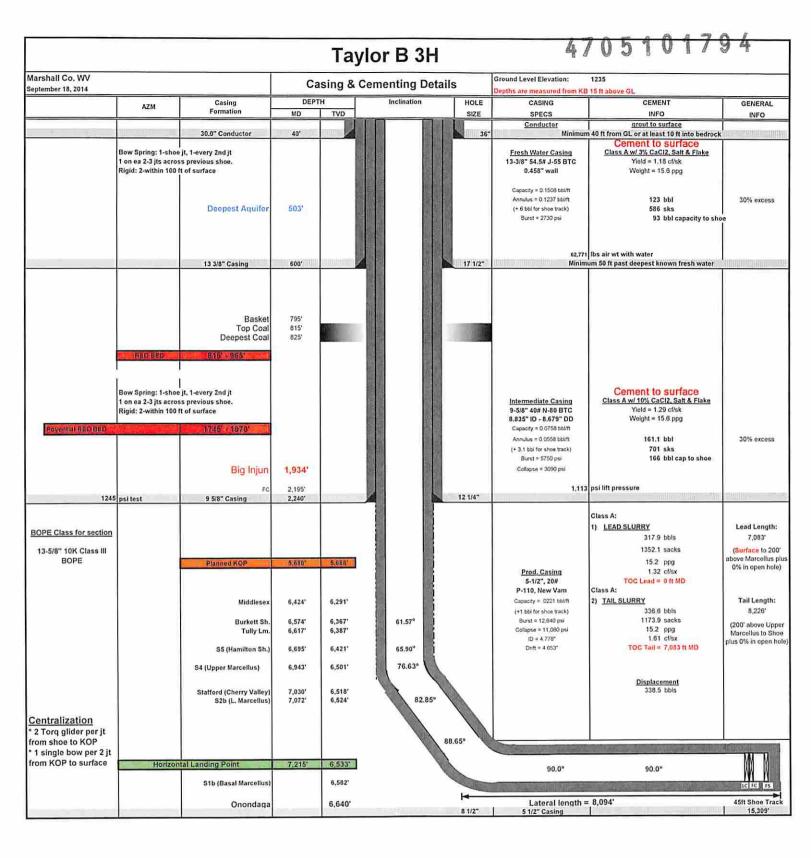
The Production cement will have a lead and tail cement.

The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder.

The tail will contain class A cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

NOV 1 4 2014

Office of Oil and Gas WV Dept. of Environmental Protection



Received

NOV 1 4 2014

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC	OP Code _49449935
Watershed (HUC 10) Middle Grave Creek -	Grave Creek Quadrangle Glen Easton, WV
Elevation_1257'	County Marshall District Clay
Do you anticipate using more than 5,000 bbls Will a pit be used? Yes No W If so, please describe anticipated pit Will a synthetic liner be used in the	
Proposed Disposal Method For Trea	
Reuse (at API Nu Off Site Disposal Other (Explain Will closed loop system be used? If so, descri	ction (UIC Permit Number) umber) (Supply form WW-9 for disposal location) Yes, the closed loop system will remove an ijouttings from the drilleribe: fluid. The drill cuttings are then prepared for transportation to an offsite clisposal facility. rtical and horizontal)? Air, freshwater, oil based, etc. air, oil based
-If oil based, what type? Synthetic,	petroleum, etc.synthetic
Additives to be used in drilling medium? baril	te, fluid loss, emulsifiers, rheological control
Drill cuttings disposal method? Leave in pit,	
	at medium will be used? (cement, lime, sawdust) N/A
	nber? Arden Landfill - Permit # - PA DEP 100172
on August 1, 2005, by the Office of Oil and Oprovisions of the permit are enforceable by law or regulation can lead to enforcement act. I certify under penalty of law that application form and all attachments there obtaining the information, I believe that the penalties for submitting false information, in	to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued Gas of the West Virginia Department of Environmental Protection. I understand that the law. Violations of any term or condition of the general permit and/or other applicable tion. I have personally examined and am familiar with the information submitted on this to and that, based on my inquiry of those individuals immediately responsible for e information is true, accurate, and complete. I am aware that there are significant cluding the possibility of fine or imprisonment.
Company Official Signature	myrakur
Company Official (Typed Name) Anna Shur	
Company Official Title Permitting Coordinate	or
	COMMONIST THE OF PERMINANT
Subscribed and sworn before me this	day of October, 20 COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL THOMAS BASINGER Notary Public CONNELLSVILLE CITY, FAYETTE CNTY My Commission Expires Sep 24, 2017

Form WW-9

Operator's Well No. Taylor B - 3H

Proposed Revegetation Treatr	nent: Acres Disturbed 18.	.3 P	revegetation pH	5.5-6.3
_{Lime} Soil Test	Tons/acre or to correct t	$F \cap F$		
Fertilizer type	0-20			
Fertilizer amount_1,	,000	lbs/acre		
_{Mulch} Straw	2	Cons/acre		
		Seed Mixtures		
Ter	mporary		Perman	ent
Seed Type	lbs/acre		d Type	lbs/acre
Winter Rye	170	Birdsfoot 7	Γrefoil	15
Plant	8/15 - 2/28	Weeping L	ovegrass	45
		Perennial f	Ryegrass	10
		Dlant 2/4 G	ME 014E	0/15
Drawing(s) of road, location, provided)			/15 8/15	
Drawing(s) of road, location, provided) Photocopied section of involve the provided		nd application (unless engi		
Drawing(s) of road, location, provided) Photocopied section of involve the provided	ved 7.5' topographic sheet.	nd application (unless engi	neered plans inc	
Drawing(s) of road, location, provided) Photocopied section of involve the provided	ved 7.5' topographic sheet.	nd application (unless engi	neered plans inc	
Drawing(s) of road, location, provided) Photocopied section of involve plan Approved by:	ved 7.5' topographic sheet.	Received Nov 1.4	ved	luding this info
Drawing(s) of road, location, provided) Photocopied section of involve plan Approved by:	ved 7.5' topographic sheet.	ROCEN	ved	luding this info
Attach: Drawing(s) of road, location, provided) Photocopied section of involv Plan Approved by: Comments:	ved 7.5' topographic sheet.	Received Nov 1.4	ved	luding this info
Drawing(s) of road, location, provided) Photocopied section of involve the provided	ved 7.5' topographic sheet.	NOV 1.4 Office of Oil a www.pept. of Environm	neered plans inc. 2014 2014 and Gas ential Protection	luding this info

CHEVRON APPALACHIA, LLC



West Virginia Well Site Safety Plan

Taylor B Site Well 3H Marshall County, West Virginia

Prepared in Conformance with:

West Virginia's Code §22-6A and Legislative Rule §35-8-5.7 and

West Virginia Department of Environmental Protection's, Office of Oil and Gas documents: "Well Site Safety Plan Standards" (issued August 25, 2011), and "Deep Well Drilling Procedures and Site Safety Plan Requirements" (issued October 22, 2012)

Revision 1

Received

Original: September 2012

Revised: June 2013

Revised: May 2014

NOV 1 4 2014

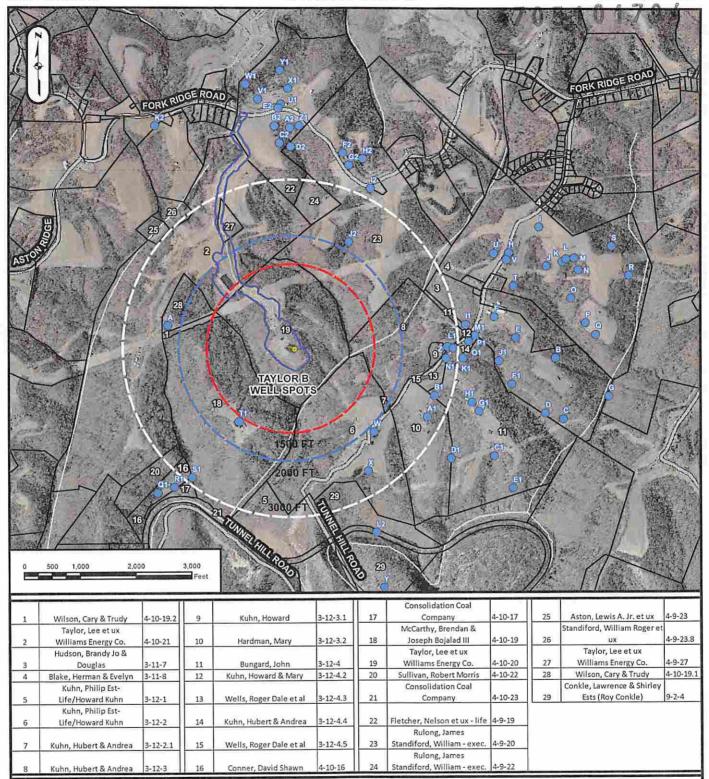
Office of Olf and Gas WV Dept. of Environmental Protocolo

WATER SUPPLY EXHIBIT TAYLOR UNIT B

5101794

Blue Mountain Inc.

Date: 9/19/2014



SURFACE OWNER: LEE TAYLOR, ET UX. COUNTY: MARSHALL

OIL/GAS OWNER: LEE R. & SHERRI L. TAYLOR DISTRICT: CLAY

WELL OPERATOR: CHEVRON APPALACHIA, LLC SURVEYOR: BLUE MOUNTAIN INC.

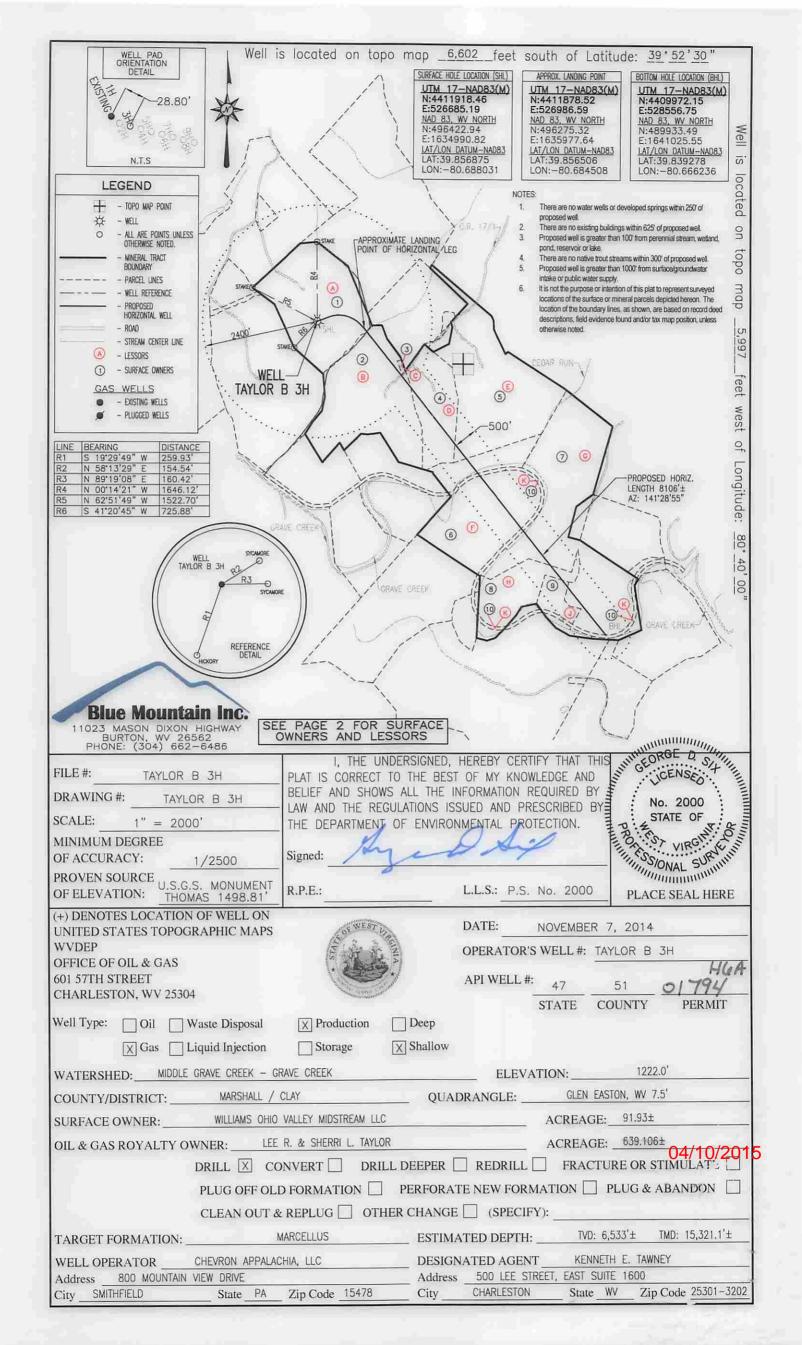
ADDRESS: 800 MOUNTAIN VIEW DRIVE 1 4 2014 ADDRESS: 11023 MASON DIXON HIGHWAY

BURTON, WV 26562

SMITHFIELD, PA 15478

PHONE: 724-564-3700 Office of Oil and Gas Ph

PHONE: 304-662-6486 04/10/2015



TAYLOR B 3H PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/20
2	PHILIP L. KUHN EST LIFE	3-12/2
3	*HUBERT & ANDREA KUHN	3-12/2.1
4	MARY T. HARDMAN	3-12/3.2
5	JOHN A. BUNGARD	3-12/4
6	TRACIE L. WEST, ET AL	9-2/5
7	ROBERT W. ZIRKLE, ET AL	3-12/5
8	CHARLES A. RILEY, ET UX	3-12/6
9	WAYNE E. PYLES	3-12/7
10	CONSOLIDATION COAL COMPANY	3-12/28

	LESSOR
Α	LEE R. & SHERRI L. TAYLOR
В	HOWARD LEE KUHN, ET AL
B C	*HUBERT & ANDREA KUHN
D	MARY T. HARDMAN
E	JOHN A. BUNGARD
F	TRACIE J. WEST
G	ROBERT W. & SABRINA ZIRKLE
Н	CHARLES A. RILEY, ET UX
J	WAYNE E. PYLES
K	CONSOLIDATION COAL COMPANY

SURFACE HOLE LOCATION (SHL)

UTM 17—NAD83(M)

N:4411918.46

E:526685.19

NAD 83, WV NORTH

N:496422.94

E:1634990.82

LAT/LON DATUM—NAD83

LAT:39.856875

LON:—80.688031

APPROX. LANDING POINT

UTM 17—NAD83(M)
N:4411878.52
E:526986.59
NAD 83, WV NORTH
N:496275.32
E:1635977.64
LAT/LON DATUM—NAD83
LAT:39.856506
LON:—80.684508

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4409972.15
E:528556.75
NAD 83, WY NORTH
N:489933.49
E:1641025.55
LAT/LON DATUM-NAD83
LAT:39.839278
LON:-80.666236

NOVEMBER 7, 2014

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

47-051-01794 HeA 04/10/2015



Operator's Well No	Taylor B 3H	
Operator's well inc	, raylor b or i	

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that —

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Attached.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator	Chevron Appalachia, LLC
Ву:	Janny builto
Its:	Permitting Team Lead

Page 1 of

Parcel	Lessor	Lessee	Royalty	DB/PG	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
5	Taylor, Lee R. & Sherri L.	TriEnergy, Inc.	12.5%	741/94	BK19/PG138 TriEnergy, Inc. to AB Resources LLC	BK24/PG319AB Resources LLC to Chief Exploration & Development LLC, et al.	BK25/1Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
5	Kuhn, Howard Lee, et al	TriEnergy, Inc.	12.5%	687/299; 741/30	BK19/PG138 TriEnergy, inc. to AB Resources LLC	BK24/PG319AB Resources LLC to Chief Exploration & Development LLC, et al.	BK25/1Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
>	Kuhn, Hubert & Andrea	Chevron U.S.A., INC.	16%	822/76	N/A	N/A	N/A
5	Hardman, Mary T.	Chevron U.S.A., INC.	16%	829/63	N/A	N/A	N/A
	Bungard, John A.	Great Lakes Energy Partners, LLC (previous name of Range Resources Appalachia, LLC — see Certificate of Amendment in BK19/PG443)	12.5%	658/179	BK23/PG368 Range Resources Appalachia, LLC to Chesapeake Appalachia, LLC	BK30/PG461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	N/A
\ <u>"</u>	West, Tracie J.	Chesapeake Appalachia, LLC	12.5%	682/532	BK30/PG461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	N/A	N/A
O	Zirkle, Thomas & Cynthia	Great Lakes Energy Partners, LLC (previous name of Range Resources Appalachia, LLC see Certificate of Amendment in BK19/PG443)	12.5%	653/508	BK23/PG368 Range Resources Appalachia, LLC to Chesapeake Appalachia, LLC	BK30/PG461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	N/A
U	Zirkle, Robert W. & Sabrina	Great Lakes Energy Partners, LLC (previous name of Range Resources Appalachia, LLC see Certificate of Amendment in BK19/PG443)	12.5%	653/510	BK23/PG368 Range Resources Appalachia, LLC to Chesapeake Appalachia, LLC	BK30/PG461 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	N/A
\ <u> </u>	Riley, Charles A. & Linda J.	Great Lakes Energy Partners, LLC (previous name of Range Resources Appalachia, LLC see Certificate of Amendment in BK19/PG443)	12.5%	652/36	BK23/PG368 Range Resources Chesapeake Appalachia, LLC to Appalachia, L.L.C. Chesapeake to Chevron U.S.A. Appalachia, LLC	BK32/PC226 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	N/A

TriEnergy Holdings, LLC 18% 712/546 Holdings, LLC NPAR, LLC	A	hief n & ent LLC, evron
TriEnergy Holdings, LLC 18% 712/546 Holdings, LLC nPAR, LLC	N/A	BK25/1C Exploratio Developm et al to Ch U.S.A. Inc.
TriEnergy Holdings, LLC 18% 712/546	N/A	BK24/PG466AB Resources LLC, et al to Chief Exploration & Development LLC, et al.
TriEnergy Holdings, LLC	N/A	BK24/PG430 TriEnergy Holdings, LLC to NPAR, LLC
TriEnergy Holdings, LLC	818/553	712/546
	25%	18%
yles, Wayne E.	Chevron U.S.A., INC.	TriEnergy Holdings, LLC
	CNX Gas Company LLC	Pyles, Wayne E.
	×	á.

BOOK 025 PATEON I

ASSIC NMENT AND BILL OF SALE

STATE OF WEST VIRGINIA

§ §

COUNTY OF MARSHALL

§ §

JIN LAND SEKVICE. INC. 11106. STATE HIGHAY 18 COMEMIT LANE • PA 16316-3620 THIS ASSIGNMENT ANI BILL OF SALE (this "Assignment") is made by and among Chief Exploration & Development LLC, a Texas limited liability company, having an office at 5956 Sherry Lane, Suite 1500, Dal as, TX 75225, Chief Oil & Gas LLC, a Texas limited liability company, having an office at 5956 Sherry Lane, Suite 1500, Dallas, TX 75225, (jointly "Chief"), Radler 2000 Limited Partnership, : Texas limited partnership, having an office at 3131 West 7th Street, 4th Floor, Fort Worth, TX 7:0107 ("Radler" and together with Chief "Chief/Radler"), and Enerplus Resources (USA) Corpo ation, a Delaware corporation, having an office at US Bank Tower, 950 17th Street, Denver, Colorado 80202-2805 ("Enerplus" and together with Chief/Radler, "Assignors"), and Chevron U.S.A. Inc., a Pennsylvania corporation, having an office at Westpointe Corporate Cet ter One, 1550 Coraopolis Heights Road, Moon Township, PA 15108 ("Assignee"). Hereinafter, each of Assignors and Assignee are referred to as a "Party" and collectively as the "Parties".

ARTICLE I ASSIGNMENT OF INTEREST

- 1.1 Assignment. For and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, including (a) as to Chief/Radler and Assignee, the mutual covenants and agreements described in that certain unrecorded Purchase and Sale Agreement dated May 3, 2011, by and among Chief/Radler, as sellers, and Assignee, as buyer (the "Chief/Radler Purchase Agreement") and (b) as to Enerplus and Assignee, the mutual covenants and agreements described in that certain unrecorded Purchase and Sale Agreement dated June 14, 2011, by and between Enerplus, as seller, and Assignee, as buyer (the "Enerplus Purchase Agreement" and together with the Chief/Radler Purchase Agreement, the "Purchase Agreements"), the receipt and safficiency of which is hereby acknowledged by Assignors, Assignors do hereby GRANT, B&RGAIN, SELL, CONVEY, ASSIGN, TRANSFER, and SET OVER unto Assignee, effective is of the Effective Date (as defined below), subject to the exceptions, reservations, terms and conditions herein contained, all of Assignors' rights, title and interest in and to the following ass: ts (collectively, the "Subject Properties"):
 - (a) All of the vil, gas or mineral leases described on Exhibit A attached hereto, and any ratifications and amendments thereof, whether or not same are described thereon (the "Leases");
 - (b) All of the vells described on Exhibit B attached hereto (the "Wells") together with all oil, gas, other liquid or gaseous hydrocarbons, or any of them or any combination thereof, and all products extracted, separated, processed and produced therefrom ("Hydrocarbon;");
 - (c) All presently existing and valid, oil, gas or mineral unitization, pooling, and/or communitization as reements, declarations and/or orders, and Assignor's interests in and to the properties covered or the units created thereby to the extent attributable to the Leases (collectively the "Units");
 - (d) All present y existing and valid operating agreements, production sales contracts, and other agreements and contracts, including, but not limited to those listed on **Exhibit C** attached hereto to the extent that they relate to any of the Leases, Wells, or Units (the "Contracts");
 - (e) All materia s, supplies, machinery, equipment, improvements and other personal property and fix ures, including, but not limited to, all wellhead equipment, pumping units, wellsite flc wlines, tanks, buildings, injection facilities, saltwater disposal

Prepared by:

Chief Oil & Gas LLC ,5956 Sherry Lane, Suite 1500 Dallas, Texas 75225 facilities, compression facil ties, and other equipment) to the extent that they relate to any of the Leases, Wells, or Units and are used in connection with the exploration, development, operation or maintenance thereof;

- (f) To the extent transferrable, all permits, rights-of-way, easements, servitudes, licenses, franchises and other estates and similar rights and privileges related to or used solely in connect on with the Subject Properties;
- (g) To the extent transferable, all contracts, agreements, and other similar rights related to water rights or water sources used in connection with the Subject Properties; and
- (h) All files, records, documentation and data of Assignors or their Affiliates that relate to the Subject Properties, including any correspondence, information and reports (including petrolet m engineering, reservoir engineering, drilling, geological, geophysical and all other k nds of technical data and samples, well-logs, and analyses in whatever form) lease files, land files, well files, division order files, environmental assessments, safety records; governmental filings, production reports, production logs, core materials and core sample reports and maps, and all accounting files, books, records, files, title opinions, title abstracts, title reports, reports and similar documents and materials of, but not including any (1) files, records, documentation or data that Assignors may not sell, transfer, or otherwise dispose of as a result of confidentiality obligations by which it is bound or which cannot be provided to Assignee because such transfer is prohibited by the agreement under which it was acquired; or (2) any corporate, financial, and tax records o 'Assignors.

The Subject Properties do not include, and there is hereby expressly excepted and excluded therefrom and reserved all Excluded Properties.

TO HAVE AND TO HOLD the Subject Properties unto Assignee and its successors and assigns forever.

ARTICLE II. WARRANTY

Section 2.1. AS TO THE SUBJECT PROPERTIES ASSIGNED HEREUNDER BY CHIEF/RADI.ER, PURSUANT TO THE CHIEF/RADLER PURCHASE AGREEMENT, SUBJECT TO THE PERMITTED ENCUMBRANCES (AS DEFINED IN THE CHIEF/RADLER PURCHASE AGREEMENT), CHIEF/RADLER AGREES TO WARRANT AND FOREVER DEFEND TITLE TO SUCH SUBJECT PROPERTIES UNTO ASSIGNEE, AND ITS SUCCESSORS AND ASSIGNS, AGAINST THE CLAIMS AND DEMANDS OF ALL PERSONS CLAIMING, OR TO CLAIM THE SAME, OR ANY PART THEREOF, BY, THROUGH OR UNDER CHIEF/RADLER, BUT NOT OTHERWISE.

Section 2.2. AS TO THE SUBJECT PROPERTIES ASSIGNED HEREUNDER BY ENERPLI S, PURSUANT TO THE ENERPLUS PURCHASE AGREEMENT, SUBJECT TO THE PERMITTED ENCUMBRANCES (AS DEFINED IN THE ENERPLUS PURCHASE AGR EMENT), ENERPLUS AGREES TO WARRANT AND FOREVER DEFEND TITLE TO SUCH SUBJECT PROPERTIES UNTO ASSIGNEE, AND ITS SUCCESSORS AND ASSIC NS, AGAINST THE CLAIMS AND DEMANDS OF ALL PERSONS CLAIMING, OR TC CLAIM THE SAME, OR ANY PART THEREOF, BY, THROUGH OR UNDER ENERP JUS, BUT NOT OTHERWISE.

ARTICLE III DISCLAIMERS

OTHER THAN THOSE REPRESENTATIONS AND WARRANTIES EXPRESSLY SET OUT IN PURCHASE AGREEMENTS AND THIS ASSIGNMENT, ASSIGNORS HEREBY EXPRESSLY DISCLAIM ANY AND ALL REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE SUBJECT PROPERTIES OR THE TRANSACTION CONTEMPLATED HEREBY, AND ASSIGNEE AGREES THAT THE SUBJECT PROPERTIES ARE BEING SOLD BY ASSIGNORS "WHERE IS," "AS IS," AND "WITH ALL FAULTS." SPECIFICALLY AS PART OF (BUT NOT IN LIMITATION OF) THE FOREGOING, ASSIGNEE ACKNOWLEDGES THAT, OTHER THAN THOSE REPRESENTATIONS AND WARRANTIES EXPRESSLY SET OUT IN

THE PURCHASE AGREEMENTS AND THIS ASSIGNMENT, ASSIGNORS HAVE NOT MADE, AND ASSIGNORS HEREBY EXPRESSLY DISCLAIM, ANY REPRESENTATION OR WARRANTY (EXPRESS, IMPLIED, UNDER COMMON LAW, BY STATUTE OR OTHIRWISE) AS TO THE CONDITION OF THE SUBJECT PROPERTIES (INCLUDING, WITHOUT LIMITATION, ASSIGNORS DISCLAIM ANY IMPLIED OR EXPRESS WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR CONFORMITY TO MODELS OR SAMPLES OF MATERIALS).

ARTICLE IV MISCELLANEOUS

- Purchase Agreements. As to the Subject Properties assigned hereunder by Chief/Radler, this Assignment is 11ade subject to the terms and conditions of the Chief/Radler Purchase Agreement, which is incorporated herein by reference for all purposes, as to such Subject Properties. As to the Subject Properties assigned hereunder by Enerplus, this Assignment is made subject to the terms and conditions of the Enerplus Purchase Agreement, which is incorporated herein by reference for all purposes, as to such Subject Properties. The Purchase Agreements contain cer ain representations, warranties and agreements between the Parties, which shall survive the delivery of this Assignment, as provided for therein. In the event of conflict or other inconsistency between this Assignment and the Purchase Agreements, the Purchase Agreements, as applicable, will control. Capitalized terms used in this Assignment and otherwise not defined shall have the meanings set forth in the Purchase Agreements. Notwithstanding anything herein to the contrary, (a) the rights and obligations of each Assignor hereunder are several and not join: and several, (b) Enerplus shall have no rights or obligations as a result of the execution and delivery of this Assignment by Enerplus (i) for any breach of this Assignment by Chief or Radler or (ii) under the Chief/Radler Purchase Agreement and (c) neither Chief nor Radler shall have any rights or obligations as a result of the execution and delivery of this Assignment by either Chief or Radler (i) for any breach of this Assignment by Enerplus or (ii) under the Enerplus Purchase Agreement.
- 4.2 Exhibits. The Exhibits attached hereto are incorporated herein by reference for all purposes, and references to this Assignment shall also include such Exhibits unless the context in which used shall otherwise require.
- 4.3 **Binding Effect.** This Assignment shall bind and inure to the benefit of Assignors and Assignee and their respective: uccessors, assigns and legal representatives.
- 4.4 Counterparts; Recordation. This Assignment may be executed in any number of counterparts, each of which shall be of equal dignity and all of which shall constitute but one and the same instrument. To facil tate recordation or filing of this Assignment, each counterpart filed with a county or state agenc / or office may contain only those portions of the Exhibits to this Assignment that describe property under the jurisdiction of that agency or office. A complete copy of this Assignment has been filed and recorded in Marshall County, West Virginia.

|Signature Pages Follow|

300K 0 25 PAGE 0 0 4

IN WITNESS WHEREOF, each of the parties hereto has executed this Assignment to be effective as of 7:00 a.m. local time of the location of the Subject Properties on July 1, 2010 (the "Effective Date").

ASSIGNORS:

Chief Exploration & Development LLC

Name: Synne Mildren

Title: Senior Vice President - Lard

Chief Oil & Gas LLC

Name: Glynne Mildren

Title: Senior Vice President - Lar d

Radler 2000 Limited Partnership By: Tug Hill, Inc., its General Partner

Name: Michael G. Radler

Title: President

Enerplus Resources (USA) Corporation

By: Alans

Name: Roxanne Forst Title: Attorney-in-Fact

800K 0 25 PAGE 0 05

ASSIGNEE:

Chevron U.S.A. Inc.

By: Cim (L)440 Name: Ann Wacker Title: Assistant Secretary

100K 0 25 MARE 0 0 6

STATE OF TEXAS

COUNTY OF DALLAS

On this, the 23rd day of sune, 2011, before me, the undersigned officer, personally appeared Glynne Mildren, who acknowledged himself to be the Senior Vice President – Land of Chief Exploration & Development LLC and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by him as said officer.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal)

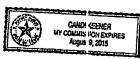
COUNTY OF DALLAS §

On this, the 23rd day of lune, 2011, before me, the undersigned officer, personally appeared Glynne Mildren, who acknowledged himself to be the Senior Vice President – Land of Chief Oil & Gas LLC, and that he as such officer, being authorized to do so, executed the foregoing instrument for the pury oses therein contained, by signing the name of the limited liability company by him as said officer.

In Witness Whereof, I here into set my hand and official seal.

(Notarial Seal)

STATE OF TEXAS



My Commission expires:

900X 0 25 PAUE 0 0 7

STATE OF TEXAS

COUNTY OF DALLAS

On this, the 23rd day of .une, 2011, before me, the undersigned officer, personally appeared Michael G. Radler, who acknowledged himself to be the President of Tug Hill, Inc., the General Partner of Radler 2000 Limited Partnership, and that he as such officer, being

the General Partner of Radler 2000 Limited Partnership, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing on behalf of the corporation by him as said officer.

In Witness Whereof, I hereinto set my hand and official seal.

(Notarial Seal)	nmissi in Expres	My Commission expires:	
STATE OF TEXAS	§		
COUNTY OF DALLAS	δ		

On this, the 23rd day of lune, 2011, before me, the undersigned officer, personally appeared Roxanne Forst, known to me to be the person whose name is subscribed as attorney-infact for Enerplus Resources (USA) Corporation, and acknowledged that she executed the same as the act of her principal for the purposes therein contained.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal)

Wi son
for tassion Expires

Nay Commission expires:

800X 0 25 PAGE 0 0 8

STATE OF TEXAS

8

COUNTY OF DALLAS

8

On this, the 24th day of .une, 2011, before me, the undersigned officer, personally appeared Ann Wacker, who ackn wledged herself to be the Assistant Secretary of Chevron U.S.A. Inc., and that she as such officer, being authorized to do so, executed the foregoing instrument for the purposes thereir contained, by signing the name of the corporation by her as said officer.

My Commission expires:

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal)

COREY J MEISTER
Notary Public, State of Texas
My Commission Expires
July 17, 2014

Jan Pest
MARSHALL County 09:06:51 AM
Instrument No 1308157
Date Recorded 07/21/2011
Document Type ASM
Fages Recorded 104
Book-Page 25-1
Recording Fee \$104.00

Additional \$16.00

300K 0 25 PAGE 1 0 4

Exhibit "C" (Contracts)

Attached to and made a part of that certain Assignment and Bill of Sale made by and among Chief Exploration & Development LLC, Chief Oil & Ges LLC, (jointly "Chief"), Radler 2000 Limited Partn-Irship, ("Radler" and together with Chief "Chief/Radler"), and Energius Resources (USA) Corporation, ("Energius" and together with Chief/R idler, "Assignors"), and Chevron U.S.A. Inc., Multiple Counties, State of West Virginia.

CONTRACTIO	DESICRIPTION	CONTRACT	ALL PARTIES	CONTRACT NAME	COUNTY	STATE
NECES-C056	Impoundments/ Frac pit agmts.	01/14/11	Grimm Lumber, Inc. and Elmer C. Grimm, Jr., and Mary Ann Grimm, husband and wife, Granter, Chief Expicration & Development LLC, Grantee, Chief Oil & Gas LLC, Operator	Surface Lease (FWIS) - Grimm Lumber, Inc.	PRESTON	w
NECES-C067	impoundments/ Frac pit agmts.	03/24/11	Kenr sth W. Chidester and Helen L. Chide-ster, husband and wife, Gran or, Chief Exploration & Deve opment LLC, Grantee, Chief Oil & Sas LLc, Operator	Surfece Lease (Fresh Water Impoundment Site) - Kenneth W. Chidester, et ux	PRESTON	wv
	Assignment and Assumption of Agreement	02/01/11	CHIE " GATHERING, LLC CAIWAN PENN MIDSTREAM, LLC	Agreement for Caiman to transfer its rights under the May 1, 2009 Appelachian Gas Gathering Agreement to Chief Gathering limited to the Grimm Lease	PRESTON	wv
LEGAL-C522	Seismic Agreement		Chief Oil & Gas LLC, Licensor Mararton Oil Company, Licensee		PRESTON FAYETTE	PA

Page 5 of 5

Exhibit °C" (Contracts) Assignment and D3 of Salo Muliple Countes, State of West Virginia

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I. IAN PEST Clerk of the Count, Commission of said County, do hereby certify that the annexed writing, bearing date on the last, day of July 2610, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 2157 day of July 2014 at 7:010 o'clocktle M. lan Pest Clerk

- 織024 福延466

AB RESOURCES LLC 6802 W SNOWVILLE RD SUITE E BRECKSVILLE OH 44141

ASSIGNMENT OF OIL AND GAS LEASES

This Assignment of Oil and Gas Leases (the "Assignment") is from AB RESOURCES LLC and NPAR, LLC, both of which are Delaware limited liability companies, and whose addresses are 6802 W. Snowville Road, Suite E, Brecksville, Ohio 44141 (collectively referred to as "Assignor") to CHIEF EXPLORATION & DEVELOPMENT LLC, a Texas limited liability company, whose address is 5956 Sherry Lane, Suite 1500, Dallas, Texas, and RADLER 2000 LIMITED PARTNERSHIP, a Texas limited partnership, whose address is 3131 W. Seventh Street, Suite 400, Fort Worth, Texas 76107 (referred to jointly as "Assignee").

For adequate consideration the receipt of which is acknowledged, Assignor, subject to the terms and provisions herein contained as well as the reservations herein after set forth, does hereby grant, sell, assign and convey unto Assignee, its successors and assigns, an undivided fifty percent (50%) working interest in, to and under the Oil and Gas Leases identified on Exhibit "A" attached to and made a part hereof covering the lands described on Exhibit "A".

For purposes of this Assignment (a) the Oil and Gas Leases described on Exhibit "A" are referred to as the "Leases", (b) the lands covered by the Leases are referred to as the "Lands", and (c) the undivided fifty percent (50%) working interest in, to and under the Leases and the Lands assigned and conveyed by Assignor to Assignee pursuant to this Assignment hereinafter collectively are referred to as the "Assigned Interests".

This Assignment is made expressly subject to the following:

- 1. The Assigned Interests will be subject to (i) the royalty interest as provided in the Leases and any recorded assignment of the Leases to Assignor, and (ii) all of the terms, conditions and provisions set forth in the Leases and/or such assignment of the Leases to Assignor.
- 2. The Assigned Interests will be subject to that certain Operating Agreement (the "Agreement") that was part of and associated with that certain Participation Agreement dated November 29, 2007 between AB Resources LLC and Chief Exploration & Development LLC, the Participation Agreement having since terminated. All the terms and provisions of the Agreement are fully incorporated herein by reference.
- 3. Assignor warrants the title to the Assigned Interests unto Assignee, its successors and assigns, against all adverse claims arising by, through and under Assignor, but not otherwise. EXCEPT AS PROVIDED IN THE PRECEDING SENTENCE AND EXCEPT AS PROVIDED IN THE UNRECORDED AGREEMENT, THIS ASSIGNMENT IS WITHOUT WARRANTY, EXPRESS, IMPLIED, OR STATUTORY, WHATSOEVER

Jan Pest
MARSHALL Dounty 12:40:32 PM
Instrument No 1306862
Date Recorded 06/27/2011
Document Type ASH
Pages Recorded 24
Book-Page 24-466
Recording Fee \$24.00
Additional \$8.00

Book-Page 24-467

100x 0 24 128E467

4. The Assigned Interests herein are assigned and conveyed to and are owned by Assignees in the following undivided proportions:

Chief Exploration & Development I.LC

80%

Radler 2000 Limited Partnership

20%

 Save and except the Assigned Interests, all other rights, titles and interests owned by Assignor in, to and under the Leases and the Lands are expressly reserved by Assignor and are not herein conveyed or assigned to Assignee.

The terms, covenants and conditions hereof shall be binding upon and shall inure to the benefit of Assignor and Assignee and their respective successors and assigns; and such terms, covenants and conditions shall be covenants running with the Assigned Interests, and with each subsequent transfer or assignment thereof.

This Assignment is executed by Assignor on the date indicated in its acknowledgment included herewith.

AB RESOURCES LLC, ASSIGNOR

AB LEGAL C&S 6-11-11

By: Gordon O. Yonel
Its: Chief Executive Officer

MART

AL

AB LEGAL CLS (16.11 NPAR, LLC, ASSIGNOR

By: J. Eman

Gordon O. Yonel
Its: Chief Executive Officer

EGK 024 . AEE 468

ASSIGNEES

CHIEF EXPLORATION & DEVELOPMENT LLC	RADLER 2000 LIMITED PARTNERSHIP
Ву: 477	Ву: 2416-
Is: Senifr Vice President- Land	Its: President of Tuy Hill, Inc. feneral Partier of Radjer 2000 Limited Partnership

ACKNOWLEDGMENTS

State of Unio	,	
) ss:	
County of Cuyahoga)	

WITNESS MY HAND AND SEAL this 16th day of June 2011.

Book-Page 24-469

500k 024 rau£469

State of Ohio)) ss:
County of Cuyahoga)
On this LLC, to me personally known, who, being by me duly sworn, did say that he has execute the foregoing document for the purposes described herein for and on behalf of such limited liability company.
WITNESS MY HAND AND SEAL this 1615 day of June 2011.
My Commission Toland PATRICIA A. GILL NOTARY PUBLIC STATE OF OHIO STARK COUNTY My Comm. Expires November 9, 2013
State of Texas)
County of Dallas) ss:
On this 222d day of June 2011, personally appeared Glyne Milde, the Sc. VP-Land of Chief Exploration & Development LLC, to me personally know who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.
WITNESS MY HAND AND SEAL this 2206 day of June 2011.
My Commission Expires My Courtnission Expires My Courtnission Expires My Courtnission Expires Notary Public

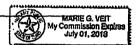
380K 0 24 1AUE 4 7 0

State of Texas) ss:

On this 24 day of June 2011. personally appeared Michael C. Radler the General Partner of Radler 2000 Limited Partnership, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited partnership.

WITNESS MY HAND AND SEAL this 24+10 day of June 2011.

My Commission Expires:



Motary Public

PREPARED BY: AB RESOURCES LLC

AFTER RECORDING RETURN TO: AB RESOURCES LLC 6802 W. Snowville Rd., Suite E Brecksville, OH 44141 PH 440.922.1250

5



I, Betty Ireland, Secretary of State of the State of West Virginia, hereby certify that

the attached true and exact copy of the Articles of Amendment to the Articles of Organization of GREAT LAKES ENERGY PARTNERS, L.L.C.

are filed in my office, signed and verified, as required by the provisions of West Virginia Code §31B-2-204 and conform to law. Therefore, I issue this

CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF AUTHORITY

changing the name of the limited liability company to

RANGE RESOURCES - APPALACHIA, LLC

JAN PEST MARSHALL County 11:42:48 AM Instrument No 123091 Date Recorded 10/29/2007 Document Type COR Book-Fase 19-443 Rac/Preserve \$5.00 \$1.00



Given under my hand and the Great Seal of the State of West Virginia on this day of September 12, 2007

Detty Tellend Secretary of State 900w 19 mgt 444

FILED

Delaware

The First State

SEP 1 2 2007

PAGE THE OFFICE OF SECHETARY OF STATE WEST VIRGINIA

I, BARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAMARE, DO BEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "GREAT LAKES EMERGY PARTNERS, L.L.C.", CHANGING ITS NAME FROM "GREAT LAKES EMERGY PARTNERS, L.L.C." TO "RANGE RESOURCES - APPALACHIA, LLC", FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2007, AT 12:45 O'CLOCK P.M.

3085850 8100 070977461

Warnet Smith Windson
Harriet Smith Windson, Socretary of State
AUTHENTICATION: 5970176

DATE: 08-31-07

State of Dalmars
Scaretary of State
Division of Corporations
Dalivarian 12:46 Hd 09/31/2007
FILED 12:45 PM 09/31/2007
SRV 070977461 - 3033850 FILE

STATE OF DELAWARE CERTIFICATE OF AMENDMENT

Name of Line Great Lakes Bos	ted Liability Company:
The Certificates follows:	of Formation of the limited flability company is hereby amen
The same of the	ompany is Range Resources – Appalachia, LLC
IN WITNESS	WHENEOD the majority of
the 29th	HEREOF, the undersigned have executed this Certificate on day of August, A.D. 2007
	By: leffen A Bynn
	Name: Jeffery A. Bymen, Sr. vp
	Print or Type

19 asi 446

State of West Virginia Office of the Secretary of State		
Botty Indand, Secretary of State of West Virginia, do hereby cartify this is a true and correct copy of the original record now so my official custody as Secretary of State.		
	Given under my hand and the Great Seal of the State of West Virginia on 10.907	
	Betty Ireland, Secretary of State By: Caroli puller Cherk	
Noticer This is an official o	ভারিয়েকে কোঁথ কালে স্বরুত ১, সকাল পার না	

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commissi	on of said County, do hereby certify that the annexed writing, bearing
date on the _ A Hiday of Jupolemille, 200 -	on of said County, do hereby certify that the annexed writing, bearing was presented for and by me, admitted to record in my office upon the day of Octahua 2007 at 11:4200000 M.
above certificate as to the parties therein named this ST. Ch.	
	TESTE: Lex Sail Clerk
CPS 5M 7-07	TESTE:



Branden Weimer Permitting Team Lead

Chevron Appalachia, LLC 800 Mountain View Drive Smithlield, PA 15478 Tel 724 564 3745 Fax 724 564 3894 bwkb@chevron.com

January 6, 2015

West Virginia D.E.P. Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

To Whom It May Concern:

Please be advised that Chevron Appalachia, LLC and Chevron U.S.A. Inc. are affiliated entities. Unless and until revoked, and as evidenced by the signatures of authorized representatives of each entity below, Chevron Appalachia, LLC is authorized to operate assets owned by Chevron U.S.A. Inc. which are located in West Virginia, including oil and gas leases. More particularly, Chevron Appalachia, LLC is authorized to obtain well work permits for assets owned by Chevron U.S.A. Inc. I trust that this will alleviate any concerns the Department may have about Chevron Appalachia, LLC applying for well work permit applications on properties either leased or owned by Chevron U.S.A. Inc. If you have any further questions or concerns, please do not hesitate to contact me.

Branden Weimer Attorney-In-Fact for Chevron Appalachia, LLC Marc Tate

Attorney-In-Fact for Chevron HECEINED

Office of Oil and Gas

FEB 27 2015

WV Department of Environmental Protection



Ian J. Durham Land Representative Appalachian/Michigan SBU Chevron North America Exploration and Production Company (a Chevron U.S.A. Inc. division) 1550 Coraopolis Heights Road Moon Township, PA 15108 Tel (412) 865-0062 Mobile (412) 627-0622 Idurham@chevron.com

West Virginia D.E.P. Office of Oil & Gas 601 57th Street SE Charleston, WV 25304-2345

November 6, 2014

RE: Taylor B #2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H

The

To whom it may concern,

This letter is to confirm that Chevron Appalachia, LLC owns the rights to access minerals under any road along the above referenced laterals. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

Ian J. Durham Land Representative

Ressived

NOV 1 4 2014

Office of Oil and Gos WV Dept, of Environmental Protection

Horizontal Natural Gas Well Work Permit **Application Notice By Publication**

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Moundsville Daily Echo		
Public Notice Date: 10/10/14 & 10/17/14		
The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.		
Applicant: Chevron Appalachia, LLC Well Number: Taylor B 2H, 3H, 4H, 6H, 7H, 8H, 9H		
Address: 800 Mountain View Drive, Smithfield, PA 15478		
Business Conducted: Natural gas production.		
Location -		
State: West Virginia County: Marshall District: Clay Quadrangle: Glen Easton, WV 7.5'		
UTM Coordinate NAD83 Northing: please see attached for a full list of wells and coordinates		
UTM coordinate NAD83 Easting: please see attached for a full list of wells and coordinates Watershed: Middle Grave Creek - Grave Creek		
Coordinate Conversion: To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php		
Electronic notification: To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.		
Reviewing Applications: Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP cog@wy gov.		

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

Well Name	Northing	Easting
Taylor B 2H	4411919.48	526680.74
Taylor B 3H	4411918.46	526685.19
Taylor B 4H	4411917.45	526689.65
Taylor B 6H	4411915.42	526698.56
Taylor B 7H	4411914.41	526703.02
Taylor B 8H	4411913.39	526707.48
Taylor B 9H	4411912.38	526711.93

Coordinates listed in UTM NAD 83

Please list well name and coordinates as follows:

Taylor B 2H 4411919.48, 526680.74; Taylor B 3H 4411918.46, 526685.19; etc.

Received

NOV 1 4 2014



N

October 10, 17, 2014



P.O. BOX 369 MOUNDSVILLE WEST VIRGINIA (304) 845-2660

AFFIDAVIT OF PUBLICATION

COUNTY OF MARSHALL, to wit STATE OF WEST VIRGINIA

oath, do depose and say: Melanie S. Murdock being first duly sworn upon my

that I am Legal Advertising Manager of the MOUNDSVILLE

 that I have been duly authorized to execute this affidavit DAILY ECHO, a Republican newspaper;

Sundays, for at least fifty weeks during the calendar year, In the municipality of Moundsville, Marshall County, West Virginia. Ihat such newspaper has been published for over 119 years, is egularly published afternoons dally except Saturdays and

 that such newspaper is a newspaper of "general circulation" as defined in Art. 3. Chap. 59 of the Code of West Virginia 1931 as amended, within Moundsville and Marshall County

exclusive of any cover, per Issue; that such newspaper averages in length four or more pages

definite price or consideration; that such newspaper is circulated to the general public at a

resorts far passing events of a political, religious, commercial and social nature and for current happenings, announcements, miscellaneous reading matters, advertisements and other notices; that such newspaper is a newspaper to which the general public

and that the annexed notice described as follows:

Legal Advertisement

PARTY(ies)

Gas Well Permit / Taylor B

NATURE (and agency if heard before one)

CERTIF-BILL TO

800 Mountain View Drive Kristen Brooks Chevron Appalachia, LLC

Smithfield, PA 15478

limes WAS PUBLISHED IN-SAID NEWSPAPER AS FOLLOWS Dates

WORDS BY 533 CHARGES PUBLICATION 107.24

> LEGALADVERTISEMENT Horizontal Natural Gas Well Work

Application Notice By Publication Pursuant to West Virginia Code Notice is hereby given:

to be located a Class II legal advertisewhich the well is located or is proposed applicant shall publish in the county in tion for a permit for a horizontal well the 22-6A-10(e) prior to filing an applica-

Paper: Moundsville Daily Echo Public Notice Date: October 10,

2014 & October 17, 2014. The following applicant intends to

of surface excluding pipelines, gathering apply for a horizontal natural well work any thirty day period. permit which disturbs three acres or more hundred ten thousand gallons of water in lines and roads or utilizes more than two

Applicant: Chevron Appalachia

Smithfield, PA 15478 Address: 800 Mountain View Drive. Well Number: Taylor B 2H, 3H, 4H

6H, 7H, 8H, 9H production. Business Conducted: Natural gas

Location

County: Marshall State: West Virginia District: Clay

B 4H 4411917.45, 526689.65; Taylor 4411912.38, 526711.93 8h 4411913,39, 526707.48; Taylor B 9H B 7H 4411914.41, 526703.02; Taylor B B 6H 4411915.42, 526698.56; Taylor 3H 4411918.46, 526685.19; Taylor 2H 4411919.48. 526680.74; Taylor UTM Coordinate NAD83: Taylor Quadrangle: Glen Easton. WV 7.5'

Grave Creek Watershed: Middle Grave Creek -

Coordinate Conversion:

into longitude and latitude, visit: http:// tagis.dep.wv.gov/convert/llutm_conus To convert the coordinates above

Electronic Notification:

04/10/2015

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

Notice has h		Operator's V	Well No 3H	
Notice has b				
Notice has b		Well Pad Na	me: Taylor B	
	een given:			
		22-6A, the Operator has provided the requ	ired parties w	ith the Notice Forms listed
below for the	tract of land as follows:		•	
State:	West Viginia	UTM NAD 83 Easting:	526685.19	
County:	Marshall	(IIIVINALIA)	4411918.46	
District:	Clay	Public Road Access:	CR 17 - Fork Ridg	e Rd
Quadrangle:	Glen Easton, WV 7.5'	Generally used farm name:	Taylor B	
Watershed:	Middle Grave Creek - Grave Creek			
it has provide information re of giving the requirements Virginia Code	Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.			
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the required	erator has attached proof to this Notice Cerd parties with the following:	rtification	OOG OFFICE USE ONLY
☐ 1. NO	FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCTED		☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	TEY or NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVIWAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	E OWNER	
I A NO	TICE OF PLANNED OPERATION		1	☐ RECEIVED
1 4. NO	INCE OF FLANNED OPERATION	Desaired		_ RECEIVED
■ 5. PUE	BLIC NOTICE	Received		RECEIVED
■ 6. NO	TICE OF APPLICATION	NOV 1 4 2014		☐ RECEIVED

Required Attachments:

Office of Oil and Gas

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC	5
(1/12)	

Certification of Notice is hereby given:

THEREFORE, I Genouses, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	Cheyron Appalachia, LLC	Address:	800 Mountain View Drive
By:	Ma		Smithfield, PA 15478
Its:	Construction Permitting Team Lead	Facsimile:	724-564-3894
Telephone:	724-564-3700	Email:	
G My Co	NOTARY SEAL NWEALTH OF PENNSYLVANIA NOTARIAL SEAL Laura Savage, Notary Public eorges Twp., Fayette County xmmission Expires Sept. 17, 2018	Subscribed and swo	th of Pennsylvania ayeste orn before me this 31 day of October, 2014. Motary Public spires September 17, 2018

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

Received

NOV 1 4 2014

WW-6A (9-13)

API NO. 47	_
OPERATOR WELL NO.	Taylor B
Well Pad Name: 3H	

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.		
Date of Notice: 9/26/2014 Date Permit Application Filed: 11/Notice of:	10/14	
✓ PERMIT FOR ANYWELL WORKCERTIFICATE OF APPICONSTRUCTION OF A	ROVAL FOR THE IN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10((b)	
	DD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serv		
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:	
SURFACE OWNER(s) Name: Williams Ohio Valley Midstream LLC Address: 100 Teletech Drive, Suite 2 Moundsville, WV 26041 Name: Address:	☐ COAL OWNER OR LESSEE Name: Consolidation Coal Company Address: 1000 Consol Energy Drive Canonsburg, PA 15317 ☐ COAL OPERATOR Name: Address:	
SURFACE OWNER(s) (Road and/or Other Disturbance) Name: Name: Name:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: Brendan McCarthy & Joseph Bojalad III Address: Fork Ridge Rd Moundsville, WV 26041	
Address: SURFACE OWNER(s) (Impoundments or Pits) Name: Address: NOV 1 4 2014	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address: *Please attach additional forms if necessary	
	Frease attach additional forms if necessary	

WW-6A (9-13)

API NO. 47	
OPERATOR WELL NO.	Taylor B
Well Pad Name: 3H	A

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.		
	of Notice: 9/26/14 Date Permit Application Filed: ce of:	
V	PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	ROVAL FOR THE IN IMPOUNDMENT OR PIT
Deliv	very method pursuant to West Virginia Code § 22-6A-10	(b)
	PERSONAL Z REGISTERED METHO	DD OF DELIVERY THAT REQUIRES A
	SERVICE MAIL RECEI	PT OR SIGNATURE CONFIRMATION
Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serv		
☑ A	pplication Notice	
	JRFACE OWNER(s)	☐ COAL OWNER OR LESSEE Name: Murray Energy Corporation
Nam	ne:	Address: 46226 National Road
Add	ress:	St. Clairsville, OH 43950
Nan	ne:	COAL OPERATOR
Add	ress:	Name:
		Address:
□ St	URFACE OWNER(s) (Road and/or Other Disturbance)	ON THE CONTROL OF WATER WELL
Nan	ne:	SURFACE OWNER OF WATER WELL
Add	ress:	AND/OR WATER PURVEYOR(s)
-		Name:Address:
Nan	ne:	Addiess.
Add	ress: Received	DOPERATOR OF ANY NATURAL GAS STORAGE FIELD
	URFACE OWNER(s) (Impoundments or Pits)	Name:
_	ne:	Address:
Add	fress:	
		*Please attach additional forms if necessary
	Office of Oil and Gas	

WV Dept. of Environmental Protection

W	W.	-6A
(8-	-13	(

API NO. 47-	-		
OPERATOR WE	ELL NO.	Taylor B	
Well Pad Name:	ЗН		

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

NOV 1 4 2014

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items 04/10/2015

API NO. 47	•
OPERATOR WELL	NO. Taylor B
Well Pad Name: 3H	

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

NOV 1 4 2014

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13)

API NO. 47	
OPERATOR WELL NO.	Taylor B
Well Pad Name: 3H	

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Received

NOV 1 4 2014

Office of Oil and Gas

WW Debt. 6. Environmental Dictorion

WW-6A (8-13)

Email:

API NO. 47-OPERATOR WELL NO. Taylor B Well Pad Name: 3H

No	tice	ic	here	hv	given	hv.
110	ucc	13	HULL	U.y	SIVUI	Uy.

Well Operator: Chevron Appalachia, LLC Telephone: 724-564-3700

Address: 800 Mountain View Drive Smithfield, PA 15478

Facsimile: 724-564-3894

Oil and Gas Privacy Notice:

angir Ken The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL THOMAS BASINGER Notary Public CONNELLSVILLE CITY, FAYETTE CNTY My Commission Expires Sep 24, 2017

Subscribed and sworn before me this 25 day of September 2014. My Commission Expires

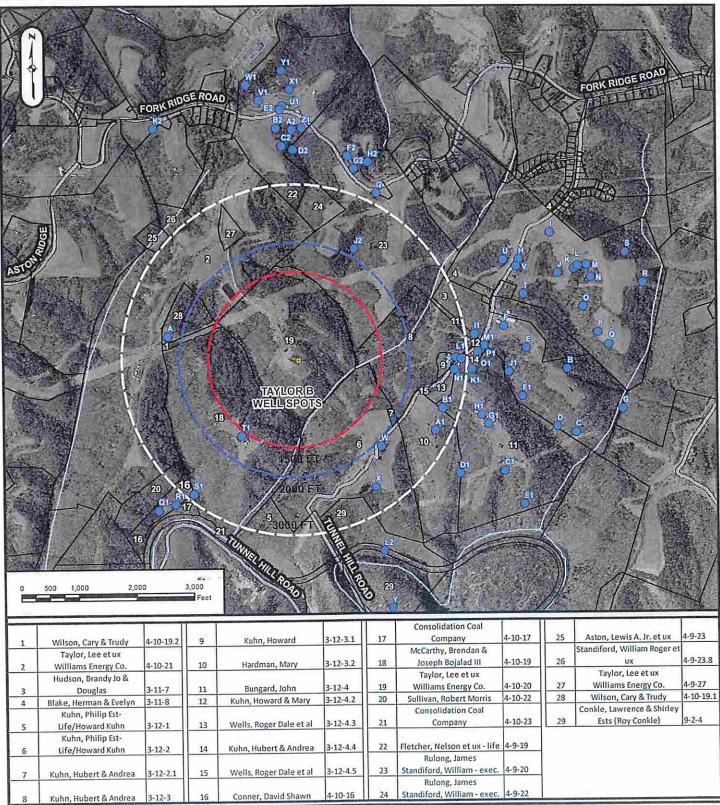
Received

NOV 1 4 2014

WATER SUPPLY EXHIBIT TAYLOR UNIT B

Blue Mountain Inc.

Date: 9/19/2014



SURFACE OWNER: LEE TAYLOR, ET UX. HOCOIVE COUNTY: MARSHALL

OIL/GAS OWNER: LEE R. & SHERRI L. TAYLOR
NOV 1 4 2014

DISTRICT: CLAY

WELL OPERATOR: CHEVRON APPALACHIA, LLC SURVEYOR: BLUE MOUNTAIN INC.

ADDRESS: 800 MOUNTAIN VIEW DRIVEtice of Oil and Gas ADDRESS: 11023 MASON DIXON HIGHWAY

WV Dept. of Environmental Protection BURTON, WV 26562 SMITHFIELD, PA 15478 04/10/2015

PHONE: 724-564-3700 PHONE: 304-662-6486

WW-6A4 (1/12)

Operator Well No.	Taylor B 3H
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notic			ast TEN (10) days prior to filing a Application Filed:	permit application.
Delivery met	thod pursuant to West V	irginia Code § 22-6	6A-16(b)	
☐ HAND	■ CERTIFI	ED MAIL		
DELIVE	ERY RETURN	N RECEIPT REQUE	ESTED	
receipt request drilling a hore of this subsect subsection ma	sted or hand delivery, give izontal well: <i>Provided</i> , Totion as of the date the not ay be waived in writing by	the surface owner what notice given purious provided to the surface owner.	notice of its intent to enter upon to rsuant to subsection (a), section to the surface owner: <i>Provided</i> , how	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is he	reby provided to the S	SURFACE OWN	ER(s):	
Name: Williams	Ohio Valley Midstream LLC		Name:	
	Teletech Drive, Suite 2		Address:	
Moundsville, WV	26041		-	
Pursuant to V the surface ov State:	wner's land for the purpos West Virginia	5A-16(b), notice is he of drilling a horize	nereby given that the undersigned ontal well on the tract of land as for UTM NAD 83 Easting: Northing:	well operator has an intent to enter upon ollows: 526685.19 4411918.46
County:	Marshall		Public Road Access:	CR 17 Fork Ridge Rd
District: Quadrangle:	Clay Glen Easton, WV 7.5'		Generally used farm name:	Taylor B
Watershed:	Middle Grave Creek - Grave Cr	reek		
Pursuant to facsimile nur	mber and electronic mail	address of the ope obtained from the Se on, WV 25304 (304	erator and the operator's authorize ecretary, at the WV Department of 1-926-0450) or by visiting	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

Operator Well No. Taylor B 3H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

		equirement: notice shall be provided no leading to the provided not be	ater than the filing lication Filed:		application.
Deliver	y metho	d pursuant to West Virginia Code § 22	-6A-16(c)		
			IAND DELIVERY		
return r the plan required drilling damage	receipt receipt receipt open do to be proper of a horses to the sentices receipt recei	quested or hand delivery, give the surface eration. The notice required by this sub- rovided by subsection (b), section ten of to rizontal well; and (3) A proposed surface surface affected by oil and gas operations	e owner whose land section shall include his article to a surfa- te use and compens to the extent the da	will be used for the compact of the country whose ation agreement mages are comp	ration, an operator shall, by certified mail rethe drilling of a horizontal well notice of of this code section; (2) The information with the tent containing an offer of compensation for pensable under article six-b of this chapter, ted in the records of the sheriff at the time
(at the a Name: S Address	address li Williams Ohi	y provided to the SURFACE OWNER(isted in the records of the sheriff at the tim o Valley Midstream LLC tech Drive, Suite 2			
Pursuar	on on the	y given: it Virginia Code § 22-6A-16(c), notice is lessurface owner's land for the purpose of vest Virginia	drilling a horizonta	I well on the trac	
County	-	farshall	- UTM NAD 8	Northing:	4411918.46
District		lay	Public Road A		CR 17 Fork Ridge Rd
Quadra	ngle: G	ilen Easton, WV 7.5'	Generally use	ed farm name:	Taylor B
Watersl	hed: M	liddle Grave Creek - Grave Creek	-		
Pursuar to be p horizon surface informa headqu	nt to Wes provided ntal well; affected ation rela	by W. Va. Code § 22-6A-10(b) to a sur and (3) A proposed surface use and com by oil and gas operations to the extent ated to horizontal drilling may be obtain located at 601 57 th Street, SE, Charles	rface owner whose pensation agreement the damages are contact and from the Secret	e land will be un nt containing an ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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NOV 1 4 2014

API NO. 47	
OPERATOR WELL NO.	3H
Well Pad Name: Taylor B	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Brend	ted above, and that I have received copies of a	the Instructi	ons to Persons Na	amed on Page WW-6A and the associated
WW-6A and	attachments consisting of pages one (1) thro	ough	including	the erosion and sediment control plan, i
required, and	the well plat, all for proposed well work on the	tract of land	as follows:	
State:	West Virginia		Facting	526685.19
County:	Marshall	UTM NAD	Northing:	4411918.46
District:	Clay	Public Roa	d Access:	CR 17 Fork Ridge Road
Quadrangle:	Glen Easton, WV 7.5'	Generally t	used farm name:	Taylor B
Watershed:	Middle Grave Creek - Grave Creek			
issued on thos	ent cultiment that produced according	escribed in the		I have no objection to a permit being ION BY A NATURAL PERSON
*Please check	the box that applies		FOR EXECUT	TON BY A NATURAL PERSON
☐ SURFAC	CE OWNER		Signature:	Ac
□ SURFAC	CE OWNER (Road and/or Other Disturban	ce)	Print Name: Date: 10.22	· 2014
☐ SURFAC	CE OWNER (Impoundments/Pits)			COLUMN CORPOR LITTON TIME
	OWNER OR LESSEE		Company: By:	ION BY A CORPORATION, ETC.
☐ COAL C	PERATOR		Its:	0.014
	NUMBEROOF			NOV 1 4 2014
■ WATER	PURVEYOR		Signature:	
□ OPERA	TOR OF ANY NATURAL GAS STORAC	GE FIELD	Date:	Office of Oil and Gas
			WV De	pt, of Environmental Protection

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WW-6AW (1-12)

API NO.	
OPERATOR WELL NO.	TAYLOR E
Well Pad Name:	Taylor I

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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VOLUNTARY STATEMENT OF NO OBJECTION

above, and that I hav	e received copies of a Notice of Application (1) through, including the	on, an Application I	for a Well W	ork Pern	W-6A and the associated provisions listed nit on Form WW-6A and attachments equired, and the well plat, all for proposed
State:	West Virginia	West Virgini		East:	1,666,412.661 ft
County:	Marshall	North State I NAD 27	Plane	North:	496,389.794 ft
District:	Clay	Public Road	Access:		
Quadrangle: Watershed:	GLEN EASTON	Generally us	sed farm nan	ne:	TAYLOR B
coordinates of No. Company, Murra *Please check the b SURFACE O SURFACE O	WNER (Road and/or Other Distur WNER (Impoundments/Pits) R OR LESSEE	661 ft in accordants.S.A. Inc. dated 2	FOR EXEC Signature: Print Name: Date:	EUTION	BY A NATURAL PERSON CONSOLIDATION, ET COII and Gas Consolidation Coal BY A CORPORATION, ET COII and Gas Consolidation Company Alex O'Noil Coal Oil & Jeas Relations Manager
□WATER PUR	VEYOR		Signature: Date:		4/2/2015
□OPERATOR C	OF ANY NATURAL GAS STORA	AGE FIELD			

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CONSOL Energy Inc.

CNX Center 1000 Consol Energy Drive Canonsburg, PA 15317

phone: 724.485.4483 fax: 724.485.4841

e-mail: RyanArp@consolenergy.com web: www.consolenergy.com

RYAN ARP Project Engineer

October 23, 2014

Mr. James Martin – Chief West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street Charleston, West Virginia 25304

RE: Chevron U.S.A. Inc. Proposed Well Work Taylor B 2H, 3H, 4H, 5H, 6H, 8H, and 9H Wells

Dear Mr. Martin,

CONSOL Mining Company LLC objects to the drilling of the wells represented by the above referenced well drilling applications, at this time, pending an opportunity to discuss the well applications in detail with Chevron U.S.A. Inc. to attempt to resolve any issues with the proposed well drillings to protect the health and safety of the employees working in the coal mine. CONSOL Mining Company LLC has submitted an objection to the drilling of these wells to Chevron U.S.A. Inc. by certified mail.

Sincerely,

Ryan Arp Project Engineer RECEIVED
Office of Oil and Gas

OCT 27 2014

WV Department of Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East . Building Five . Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin Governor

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

October 20, 2014

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Taylor B Well Pad, Marshall County

Taylor B Unit 3H Taylor B Unit 4H Taylor B Unit 2H

Taylor B Unit 8H Taylor B Unit 9H Taylor B Unit 7H

Taylor B Unit 6H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2014-0291 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 17 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Receive Central Office Oil & Gas Coordinator

Day K. Clayton

Kristen R. Brooks Cc:

Chevron Appalachia, LLC CH, OM, D-6

File

Hydraulic Fracturing Fluid Product Component Information Disclosure

	Fracture Date:
wv	State:
Marshall	County:
	API Number:
Chevron	Operator Name:
Taylor B & C	Well Pad Name
-	Longitude:
	Latitude:
	Long/Lat Projection:
	Production Type:
	True Vertical Depth (TVD):
see WMP	Total Water Volume (gal)*:

Hydraulic Fracturing Fluid Additives:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Comments
Clean Volume (gals)		Carrier/Base Fluid			
Proppant (lbs)		Proppant			
Friction Reducer (Unislik)	CESI	Friction Reducer	Hydrotreated Light Distillite	64742-47-8	
Friction Reducer (ASP 90)	Nalco	Friction Reducer	Ammonium Sulfate	7783-20-2	
Iron Control A	Nalco	Iron Control	Ethylene Glycol	107-21-1	
Biocide (EC 6116a)	Nalco	Biocide	Dibromoacetonitrile	3252-43-5	
EC 6116a	Nalco	Biocide	1,1-Dibromo-3-nitrilopropionamide	10222-01-2	
EC 6116a	Nalco	Biocide	Polyethylene Glycol	25322-68-3	
Scale Inhibitor A	Nalco	Scale Inhibitor	Ethylene Glycol	107-21-1	
7.5% Hcl Acid	Reagent/PPG	Used to open perfs	Hydrochloric Acid	7647-01-0	
Gel (CMHPG(lbs))	Ashland	Water Viscosifier	Carboxmethylhydroxyporoyl guar blend	Mixture	
Breaker (GBL)	Clearwater	Gel Breaker	Ethylene Glycol	107-21-1	
				ш	

Total Water Volume sources may include fresh water, produced water, and/or recycled water

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS 19s subject to 29 CFR 1910.1200(i) and Appendix D.



^{**} Information is based on the maximum potential for concentration and thus the total may be over 100%