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: 47-5101799, 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 9H
Farm Name: WILLIAMS OHIO VALLEY MIDST
API Well Number: 47-5101799
Permit Type: Horizontal 6A Well
Date Issued: 04/07/2015

Promoting a healthy environment.

API Number: 4705101799

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.

WW-6B
(9/13)

4705101799

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

1) Well Operator:	Chevron Appalachia, LLC	49449935	51	Clay	Glen Easton, WV
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: 9H Well Pad Name: Taylor B

3) Farm Name/Surface Owner: Williams Ohio Valley Midstream LLC Public Road Access: CR 17 Fork Ridge Road

4) Elevation, current ground: 1222' Elevation, proposed post-construction: 1222'

5) Well Type (a) Gas ■ Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow ■ Deep _____
Horizontal ■

JK 10/15/14

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, 6525', 49' - 0.64 psi/ft

8) Proposed Total Vertical Depth: 6533'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,871'

11) Proposed Horizontal Leg Length: 8923'

12) Approximate Fresh Water Strata Depths: 524' GL

13) Method to Determine Fresh Water Depths: 2 mi radius offset wells, freshwater wells, and freshwater base level

14) Approximate Saltwater Depths: 1855', 2345'-1820' KB: Francis 1V offset well

15) Approximate Coal Seam Depths: 765' GL

16) Approximate Depth to Possible Void (coal mine, karst, other): NA - Solid coal anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☑

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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18) **CASING AND TUBING PROGRAM**

TYPE	Size	New or Used	Grade	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#	15,871'	15,871'	3804.0
Tubing							
Liners							

JL 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:				

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WV Dept. of Environmental Protection

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(9/13)

4705101799

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill 17-1/2" hole to 600 then run and cement 13-3/8" casing to surface covering the fresh water. Drill 12.25" hole to 2,240' then run and cement to surface 9 5/8" casing, covering the Big Injun. Drill 8 1/2" hole to KOP at 5,688. Drill 8 1/2" curve and lateral to 15,871' MD and 6,533 TVD. Run 5 1/2" production 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 44 stages using 8,572 bbl of fluid and 315,000 lbm of sand per stage

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.3

22) Area to be disturbed for well pad only, less access road (acres): 4.3

23) Describe centralizer placement for each casing string:

There will be a bow spring centralizer every two jts on the Water string and intermediate. The production string will have two centralizer every jt in the lateral and curve, then one every jt from KOP to surface.

24) Describe all cement additives associated with each cement type:

For the 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.

25) Proposed borehole conditioning procedures:

Well will be circulated a minimum of 3 bottoms up once casing point has been reached on all hole sections and until uniform mud properties are achieved.

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*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.

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Office of Oil and Gas
WV Dept. of Environmental Protection

Taylor B 9H

4705101799

Marshall Co. WV
September 18, 2014

Casing & Cementing Details

Ground Level Elevation: 1235
Depths are measured from KB 15 ft above GL

	AZM	Casing Formation	DEPTH MD	DEPTH TVD	Inclination	HOLE SIZE	CASING SPECS	CEMENT INFO	GENERAL INFO
							Conductor	grout to surface	
		30.0" Conductor	40'			36"	Minimum 40 ft from GL or at least 10 ft into bedrock		
	Bow Spring: 1-shoe jt, 1-every 2nd jt 1 on ea 2-3 jts across previous shoe. Rigid: 2-within 100 ft of surface						Fresh Water Casing 13-3/8" 54.5# J-55 BTC 0.458" wall Capacity = 0.1508 bbl/ft Annulus = 0.1237 bbl/ft (+ 6 bbl for shoe track) Burst = 2730 psi	Cement to surface Class A w/ 3% CaCl2, Salt & Flake Yield = 1.18 cf/sk Weight = 15.6 ppg 123 bbl 586 sks 93 bbl capacity to shoe	30% excess
		Deepest Aquifer	503'						
		13 3/8" Casing	600'			17 1/2"	62,771 lbs air wt with water Minimum 50 ft past deepest known fresh water		
		Basket	795'						
		Top Coal	815'						
		Deepest Coal	825'						
	RED BED	815' - 965'							
	Bow Spring: 1-shoe jt, 1-every 2nd jt 1 on ea 2-3 jts across previous shoe. Rigid: 2-within 100 ft of surface						Intermediate Casing 9-5/8" 40# N-80 BTC 8.835" ID - 8.679" DD Capacity = 0.0758 bbl/ft Annulus = 0.0558 bbl/ft (+ 3.1 bbl for shoe track) Burst = 5750 psi Collapse = 3090 psi	Cement to surface Class A w/ 10% CaCl2, Salt & Flake Yield = 1.29 cf/sk Weight = 15.6 ppg 161.1 bbl 701 sks 166 bbl cap to shoe	30% excess
Poyential RED BED		1745' - 1870'							
		Big Injun	1,934'						
		FC	2,195'						
1245 psi test		9 5/8" Casing	2,240'			12 1/4"	1,113 psi lift pressure		
BOPE Class for section 13-5/8" 10K Class III BOPE		Planned KOP	5,688'	5,688'				Class A: 1) LEAD SLURRY 317.9 bbls 1352.1 sacks 15.2 ppg 1.32 cf/sx TOC Lead = 0 ft MD	Lead Length: 7,083' (Surface to 200' above Marcellus plus 0% in open hole)
		Middlesex	6,345'	6,291'			Prod. Casing 5-1/2", 20# P-110, New Vam Capacity = .0221 bbl/ft (+1 bbl for shoe track) Burst = 12,640 psi Collapse = 11,080 psi ID = 4.778" Drift = 4.653"	Class A: 2) TAIL SLURRY 359.6 bbls 1253.9 sacks 15.2 ppg 1.61 cf/sx TOC Tail = 7,083 ft MD	Tail Length: 8,788' (200' above Upper Marcellus to Shoe plus 0% in open hole)
		Burkett Sh.	6,454'	6,367'	50.10°				
		Tully Lm.	6,486'	6,387'					
		S5 (Hamilton Sh.)	6,545'	6,421'	57.36°				
		S4 (Upper Marcellus)	6,735'	6,501'	72.67°				
		Stafford (Cherry Valley)	6,802'	6,518'					
		S2b (L. Marcellus)	6,835'	6,524'	80.83°				
Centralization * 2 Torq glider per jt from shoe to KOP * 1 single bow per 2 jt from KOP to surface		Horizontal Landing Point	6,948'	6,533'	88.65°			Displacement 351.0 bbls	
		S1b (Basal Marcellus)		6,582'	90.0°				
		Onondaga		6,640'	90.0°				
					Lateral length = 8,923'	8 1/2"	5 1/2" Casing		45ft Shoe Track 15,871'

LC FC FS

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WW-9
(9/13)

API Number 47 - 4705101799
Operator's Well No. Taylor B - 9H

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 of water to complete the proposed well work? Yes ☑ No ☐

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____

Will closed loop system be used? If so, describe: Yes. The closed loop system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an offsite disposal facility.

Drilling medium anticipated for this well (vertical 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? barite, fluid loss, emulsifiers, rheological control

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. removed offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Arden Landfill - Permit # - PA DEP 100172

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature Anna Shumaker

Company Official (Typed Name) Anna Shumaker

Company Official Title Permitting Coordinator

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
JENNY L BUTCHKO
Notary Public
SMITHFIELD BORO, FAYETTE COUNTY
My Commission Expires Jan 17, 2018

Subscribed and sworn before me this 2 day of October, 20 14

Jenny Butchko Notary Public

My commission expires 1-17-18

4705101799

Form WW-9

Operator's Well No. Taylor B - 9H

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 18.3 Prevegetation pH 5.5-6.3

Lime Soil Test Tons/acre or to correct to pH 5.0-7.5

Fertilizer type 10-20-20

Fertilizer amount 1,000 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Winter Rye	170	Birdsfoot Trefoil	15
Plant	8/15 - 2/28	Weeping Lovegrass	45
		Perennial Ryegrass	10
		Plant 3/1 - 6/15	8/15 - 9/15

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: James Wickline

Comments:

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NOV 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Oil + Gas Inspector Date: 10/15/14

Field Reviewed? (✓) Yes ( ) No

4705101799

CHEVRON
APPALACHIA, LLC

West Virginia Well Site Safety Plan

Taylor B Site
Well 9H
Marshall County, West Virginia

JC 10/15/14

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

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Office of Oil and Gas
WV Dept. of Environmental Protection

Original: September 2012

Revised: June 2013

Revised: May 2014

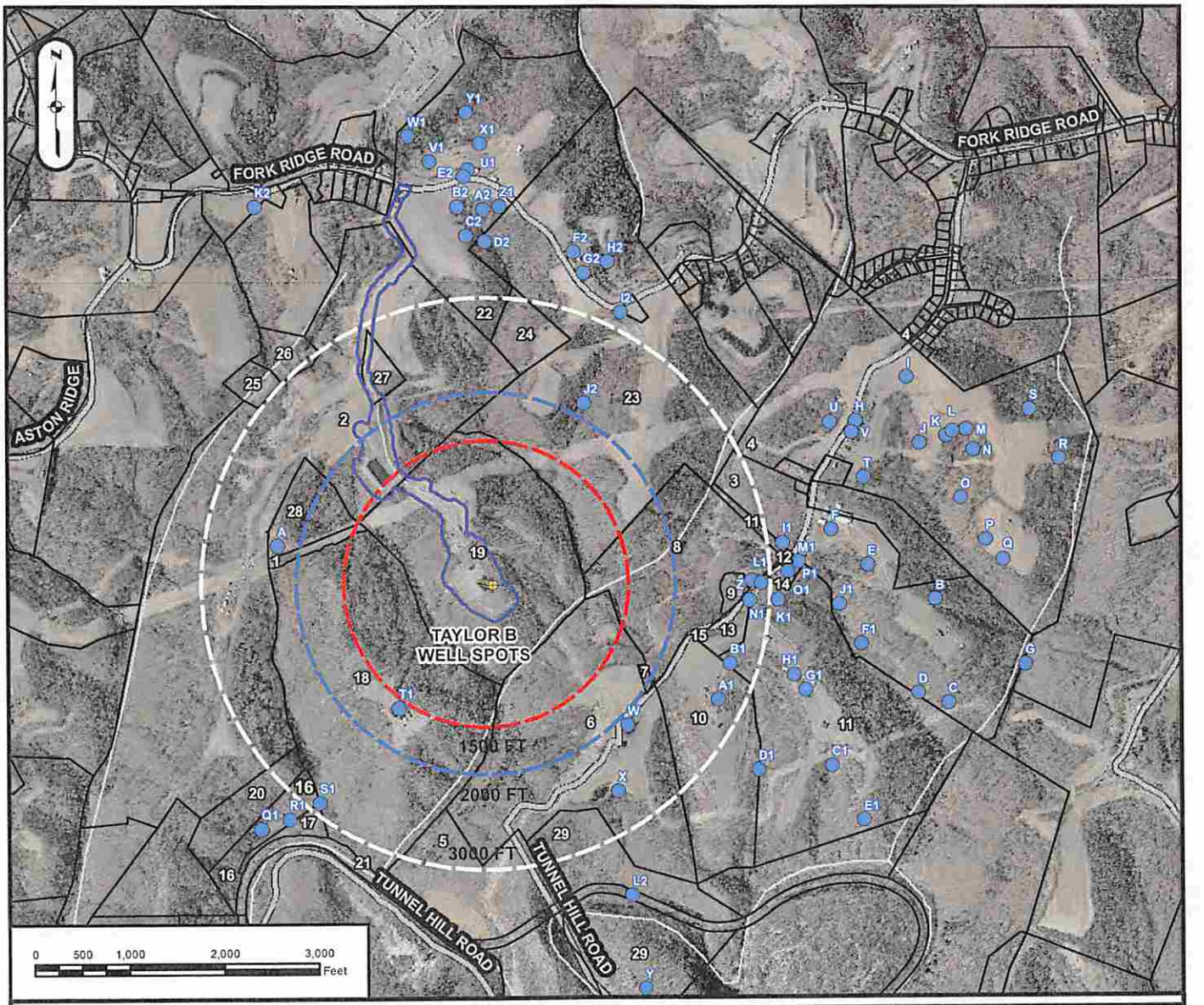
5101799 H6A

4705101799

Blue Mountain Inc.

WATER SUPPLY EXHIBIT
TAYLOR UNIT B

Date: 9/19/2014



1	Wilson, Cary & Trudy	4-10-19.2	9	Kuhn, Howard	3-12-3.1	17	Consolidation Coal Company	4-10-17	25	Aston, Lewis A. Jr. et ux	4-9-23
2	Taylor, Lee et ux Williams Energy Co.	4-10-21	10	Hardman, Mary	3-12-3.2	18	McCarthy, Brendan & Joseph Bojalad III	4-10-19	26	Standiford, William Roger et ux	4-9-23.8
3	Hudson, Brandy Jo & Douglas	3-11-7	11	Bungard, John	3-12-4	19	Taylor, Lee et ux Williams Energy Co.	4-10-20	27	Taylor, Lee et ux Williams Energy Co.	4-9-27
4	Blake, Herman & Evelyn	3-11-8	12	Kuhn, Howard & Mary	3-12-4.2	20	Sullivan, Robert Morris	4-10-22	28	Wilson, Cary & Trudy	4-10-19.1
5	Kuhn, Philip Est-Life/Howard Kuhn	3-12-1	13	Wells, Roger Dale et al	3-12-4.3	21	Consolidation Coal Company	4-10-23	29	Conkle, Lawrence & Shirley Ests (Roy Conkle)	9-2-4
6	Kuhn, Philip Est-Life/Howard Kuhn	3-12-2	14	Kuhn, Hubert & Andrea	3-12-4.4	22	Fletcher, Nelson et ux - life	4-9-19			
7	Kuhn, Hubert & Andrea	3-12-2.1	15	Wells, Roger Dale et al	3-12-4.5	23	Rulong, James Standiford, William - exec.	4-9-20			
8	Kuhn, Hubert & Andrea	3-12-3	16	Conner, David Shawn	4-10-16	24	Rulong, James Standiford, William - exec.	4-9-22			

SURFACE OWNER: **LEE TAYLOR, ET UX.**

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

WELL OPERATOR: **CHEVRON APPALACHIA, LLC**

ADDRESS: **800 MOUNTAIN VIEW DRIVE**

SMITHFIELD, PA 15478

PHONE: **724-564-3700**

COUNTY: **MARSHALL**

DISTRICT: **CLAY**

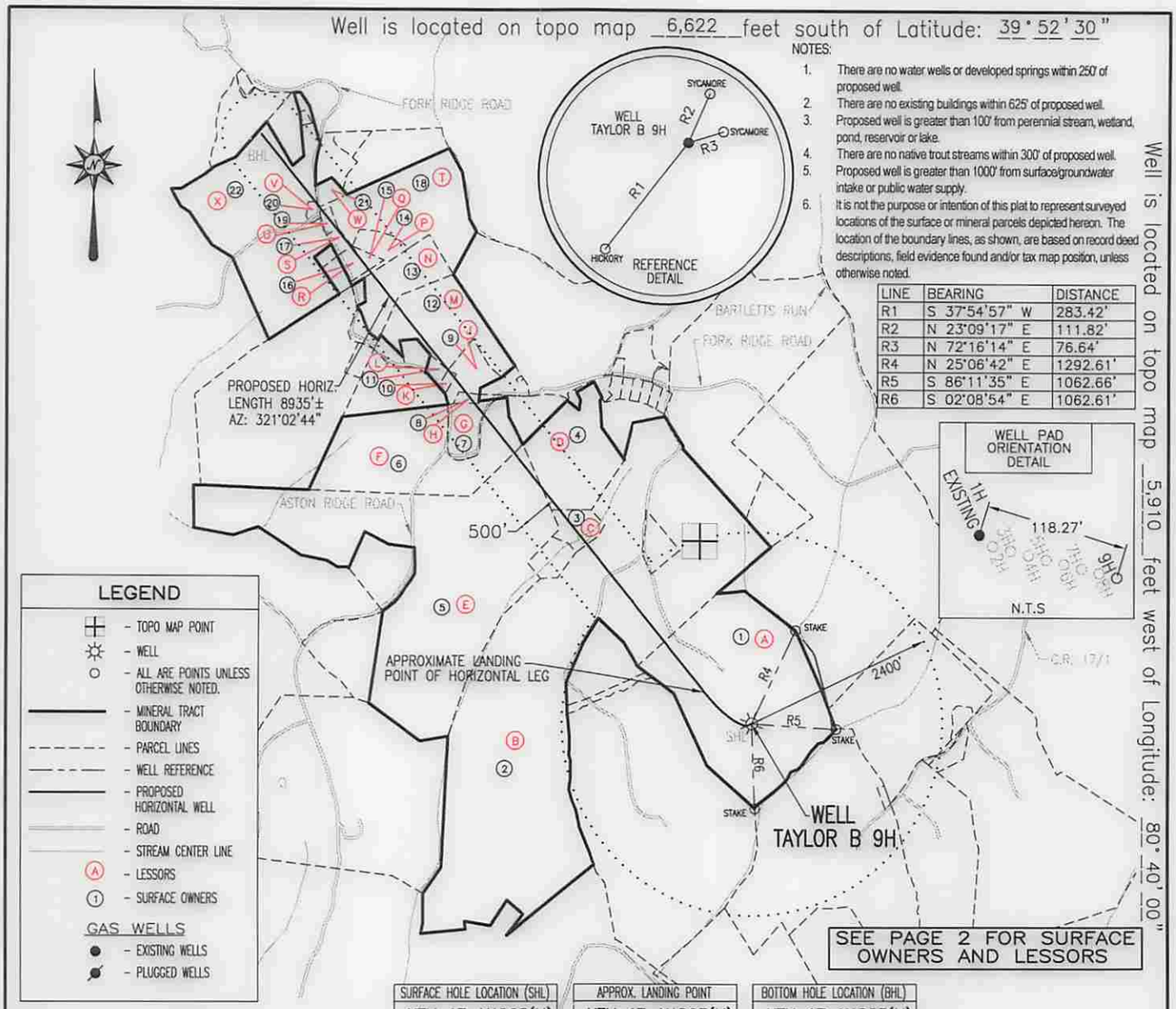
SURVEYOR: **BLUE MOUNTAIN INC.**

ADDRESS: **11023 MASON DIXON HIGHWAY**
BURTON, WV 26562

PHONE: **304-662-6486**

Well is located on topo map 6,622 feet south of Latitude: 39° 52' 30"

Well is located on topo map 5,910 feet west of Longitude: 80° 40' 00"



NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LINE	BEARING	DISTANCE
R1	S 37°54'57" W	283.42'
R2	N 23°09'17" E	111.82'
R3	N 72°16'14" E	76.64'
R4	N 25°06'42" E	1292.61'
R5	S 86°11'35" E	1062.66'
R6	S 02°08'54" E	1062.61'

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)	UTM 17-NAD83(M)	UTM 17-NAD83(M)
N:4411912.38	N:4412029.41	N:4414117.66
E:526711.93	E:526527.89	E:524781.04
NAD 83, WV NORTH	NAD 83, WV NORTH	NAD 83, WV NORTH
N:496401.51	N:496795.62	N:503744.05
E:1635078.23	E:1634480.72	E:1628862.97
LAT/LON DATUM-NAD83	LAT/LON DATUM-NAD83	LAT/LON DATUM-NAD83
LAT:39.856819	LAT:39.857881	LAT:39.876747
LON:-80.687717	LON:-80.689864	LON:-80.710208

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

FILE #: TAYLOR B 9H
DRAWING #: TAYLOR B 9H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [signature]

R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX LICENSED No. 2000 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: NOVEMBER 7, 2014
OPERATOR'S WELL #: TAYLOR B 9H
API WELL #: 47 (STATE) 51 (COUNTY) 01799 H6A (PERMIT)

Well Type: [ ] Oil [ ] Waste Disposal [X] Production [ ] Deep
[X] Gas [ ] Liquid Injection [ ] Storage [X] Shallow

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1222.00'
COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'
SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 91.93±
OIL & GAS ROYALTY OWNER: LEE R. & SHERRI L. TAYLOR ACREAGE: 723.983±

DRILL [X] CONVERT [ ] DRILL DEEPER [ ] REDRILL [ ] FRACTURE OR STIMULATE [ ]
PLUG OFF OLD FORMATION [ ] PERFORATE NEW FORMATION [ ] PLUG & ABANDON [ ]
CLEAN OUT & REPLUG [ ] OTHER CHANGE [ ] (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,533'± TMD: 15,883.3'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

TAYLOR B
9H
PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/20
2	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
3	WILLIAM ROGER STANDIFORD ET UX	4-9/23.8
4	WILLIAM R. STANDIFORD ET UX	4-9/23.3
5	LEWIS A. ASTON, JR. ET UX	4-10/6
6	LEWIS A. ASTON, JR. ET UX	4-9/13
7	WILLIAM R. & LINDA L. STANDIFORD	4-9/14
8	WILLIAM R. & LINDA L. STANDIFORD	4-9/15
9	HARLEY L. GATTS II ET UX	4-9/7.3
10	HARLEY L. GATTS ET UX	4-9/7.1
11	*HARLEY L. II & PATRICIA GATTS	4-9/7.4
12	HARLEY L. II & PATRICIA L. GATTS	4-9/7
13	JAMES R. BUCHANAN JR.	4-9/8
14	CAROL LYNN MINOR ET VIR	4-9/2.6
15	JAMES L. KOONCE ET AL	4-9/2.14
16	MARTHA J. & JAMES KOONCE ET AL	4-9/2.10
17	ROGER W. & JODY L. LOSH	4-9/2.11
18	GUERRY J. & SUZANNE K. SCHUMAN	4-9/2.15
19	ROGER W. & JODY L. LOSH	4-9/2.13
20	JEFFREY LOWELL RYAN	4-9/2.16
21	GUERRY J. & SUZANNE K. SCHUMAN	4-9/2.9
22	JEFFREY L. RYAN	4-9/2.5

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4411912.38
E:526711.93
NAD 83, WV NORTH
N:496401.51
E:1635078.23
LAT/LON DATUM-NAD83
LAT:39.856819
LON:-80.687717

APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4412029.41
E:526527.89
NAD 83, WV NORTH
N:496795.62
E:1634480.72
LAT/LON DATUM-NAD83
LAT:39.857881
LON:-80.689864

BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4414117.66
E:524781.04
NAD 83, WV NORTH
N:503744.05
E:1628862.97
LAT/LON DATUM-NAD83
LAT:39.876747
LON:-80.710208

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	LEE R. & SHERRI L. TAYLOR
C	WILLIAM ROGER STANDIFORD
D	WILLIAM ROGER STANDIFORD
E	LEWIS A. JR. & CATHY ASTON
F	LEWIS A. JR. & CATHY ASTON
G	WILLIAM ROGER STANDIFORD
H	WILLIAM ROGER STANDIFORD, ET AL
J	HARLEY L. GATTS, ET AL
K	HARLEY L. GATTS, ET AL
L	*HARLEY L. GATTS, ET AL
M	HARLEY L. GATTS, ET AL
N	JAMES R. BUCHANAN JR.
P	RANDY L. & CAROL L. MINOR
Q	JAMES L. & MARTHA J. KOONCE
R	JAMES L. & MARTHA J. KOONCE
S	ROGER W. & JODY L. LOSH
T	GUERRY J. & SUZANNE K. SCHUMAN
U	ROGER W. & JODY L. LOSH
V	JEFFREY L. RYAN
W	GUERRY J. & SUZANNE K. SCHUMAN
X	JEFFREY L. RYAN

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

NOVEMBER 7, 2014

47-051-01799 HGA

Blue Mountain Inc.
11023 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

WW-6A1
(5/13)

Operator's Well No. Taylor B 9H

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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

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
By: Jennifer Butenk
Its: Permitting Team Lead

Taylor B 9H

Parcel	Lessor	Lessee	Royalty	DB/PG	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
A, B	Taylor, Lee R. & Sherri L.	TriEnergy, Inc.	12.5%	741/94	BK19/PG138--TriEnergy, Inc. to AB Resources LLC	BK24/PG319--AB Resources LLC to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
C	Standiford, William Roger	TriEnergy Holdings, LLC	14%	687/624	BK23/PG74--TriEnergy Holdings, LLC to NPAR, LLC	BK24/PG382--AB Resources LLC, et al to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
D,G, H	Standiford, William Roger	TriEnergy, Inc.	12.5%	748/250	BK20/PG252--TriEnergy, Inc. to AB Resources LLC	BK24/PG462--AB Resources LLC to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
E, F	Aston, Lewis A. Jr. & Cathy	TriEnergy, Inc.	12.5%	741/110	BK19/PG138--TriEnergy, Inc. to AB Resources LLC	BK24/PG319--AB Resources LLC to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
J, K, L, M	Gatts, Hartley L. (50% int)	TriEnergy Holdings, LLC	18.75%	709/31	BK24/PG180--TriEnergy Holdings, LLC to NPAR, LLC	BK24/PG466--AB Resources LLC, et al. to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
J, K, L, M	Francis, Carolyn Ruth	Chevron U.S.A., INC.	15.5%	795/409	N/A	N/A	N/A
J, K, L, M	Francis, Garen E. & Diana L.	Chevron U.S.A., INC.	15.5%	795/404	N/A	N/A	N/A
J, K, L, M	Young, Patricia J.	Chevron U.S.A., INC.	15.5%	793/460	N/A	N/A	N/A
J, K, L, M	Yoho, Sharon E.	Chevron U.S.A., INC.	15.5%	793/353	N/A	N/A	N/A
J, K, L, M	Gallourakis, Gloria J.	Chevron U.S.A., INC.	15.5%	795/432	N/A	N/A	N/A
J, K, L, M	Allen, Nelson Ray and Schaundra L. Paynter	Chevron U.S.A., INC.	15.5%	797/539	N/A	N/A	N/A
J, K, L, M	Allen, Robert Wayne & Gail	Chevron U.S.A., INC.	15.5%	793/313	N/A	N/A	N/A
J, K, L, M	Hare, Ethel Irene	Chevron U.S.A., INC.	15.5%	795/218	N/A	N/A	N/A

N	Buchanan, James R., Jr.	TriEnergy Holdings, LLC	12.5%	748/113	BK21/PG531--TriEnergy Holdings, LLC to AB Resources LLC	BK24/PG466--AB Resources LLC, et al. to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
P	Minor, Randy L. & Carol L.	TriEnergy Holdings, LLC	18%	706/642	BK24/PG180--TriEnergy Holdings, LLC to NPAR, LLC	BK24/PG466--AB Resources LLC, et al. to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
Q, R	Koonce, James L. & Martha J.	TriEnergy Holdings, LLC	12.50%	686/404	BK23/PG74--TriEnergy Holdings, LLC to NPAR, LLC	BK24/PG466--AB Resources LLC, et al. to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
S, U	Losh, Roger W. & Jody L.	TriEnergy Holdings, LLC	16%	735/429	BK25/PG449--TriEnergy Holdings, LLC to NPAR, LLC	B756/PG332--NPAR, LLC to Chevron U.S.A. Inc.	N/A
T, W	Schuman, Guerry J. & Suzanne K.	TriEnergy Holdings, LLC	16%	712/520	BK24/PG430--TriEnergy Holdings, LLC to NPAR, LLC	BK24/PG466--AB Resources LLC, et al. to Chief Exploration & Development LLC, et al.	BK25/1--Chief Exploration & Development LLC, et al to Chevron U.S.A. Inc.
V, X	Ryan, Jeffrey L.	Chevron U.S.A., INC.	18%	841/237	N/A	N/A	N/A

Book-Page 24-466
Cross Reference
ASN 24-490

BOOK 024 PAGE 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 County 12:40:32 PM
Instrument No 1306862
Date Recorded 06/27/2011
Document Type ASN
Pages Recorded 24
Book-Page 24-466
Recording Fee $24.00
Additional $8.00

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

Chief Exploration & Development LLC	80%
Radler 2000 Limited Partnership	20%

5. 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 CLS 6-16-11

By: _____
Gordon O. Yonel
Its: Chief Executive Officer

NPAR, LLC, ASSIGNOR

AB LEGAL CLS 6-16-11

By: _____
Gordon O. Yonel
Its: Chief Executive Officer

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ASSIGNEES

CHIEF EXPLORATION & DEVELOPMENT LLC

By: Glynda Mildren

Its: Senior Vice President - Land

RADLER 2000 LIMITED PARTNERSHIP

By: Michael G. Radler

Its: President of Tug Hill, Inc. General Partner of Radler 2000 Limited Partnership

ACKNOWLEDGMENTS

State of Ohio)
) ss:
County of Cuyahoga)

On this 16th day of June 2011, personally appeared Gordon O. Yonel, Chief Executive Officer of AB Resources LLC, 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 liability company.

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

My Commission Expires:

11.9.13

Patricia A Gill

Notary Public

PATRICIA A. GILL
NOTARY PUBLIC
STATE OF OHIO
STARK COUNTY
My Comm. Expires
November 9, 2013

BOOK 024 PAGE 469

State of Ohio)
) ss:
County of Cuyahoga)

On this 16th day of June 2011, personally appeared Gordon O. Yonel, Chief Executive Officer of NPAR, LLC, 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 liability company.

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

My Commission Expires:
11-4-13

PATRICIA A. GILL
NOTARY PUBLIC
STATE OF OHIO
STARK COUNTY
My Comm. Expires
November 9, 2013

Patricia A. Gill
Notary Public

State of Texas)
) ss:
County of Dallas)

On this 22nd day of June 2011, personally appeared Glynne Mildren, the Sr. VP-Land of Chief Exploration & Development LLC, 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 liability company.

WITNESS MY HAND AND SEAL this 22nd day of June 2011.

My Commission Expires:

MARIE G. VEIT
My Commission Expires
July 01, 2013

Marie G. Veit
Notary Public

BOOK 024 PAGE 470

State of Texas)
) ss:
County of Dallas)

On this 24th day of June 2011. personally appeared Michael G. 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 24th day of June 2011.

My Commission Expires:

MARIE G. VEIT
My Commission Expires
July 01, 2013

Notary 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

Great Lakes Energy Partners LLC
PO Box 550
Wadsville, OH. 44632-0908

BOOK 19 PAGE 443

State of West Virginia

Certificate

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-Page 19-443
Rec/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

Betty Ireland

Secretary of State

BOOK 19 PAGE 444

Delaware

The First State

FILED

SEP 12 2007

PAGE 1

IN THE OFFICE OF
SECRETARY OF STATE
WEST VIRGINIA

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "GREAT LAKES ENERGY PARTNERS, L.L.C.", CHANGING ITS NAME FROM "GREAT LAKES ENERGY 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

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 5970176

DATE: 08-31-07

BOOK 19 PAGE 445

State of Delaware
Secretary of State
Division of Corporations
Delivered 12:46 PM 08/31/2007
FILED 12:45 PM 08/31/2007
SRV 070977461 - 3085850 FILE

STATE OF DELAWARE
CERTIFICATE OF AMENDMENT

1. Name of Limited Liability Company: Great Lakes Energy Partners, L.L.C.

2. The Certificate of Formation of the limited liability company is hereby amended as follows:

The name of the Company is Range Resources – Appalachia, LLC

IN WITNESS WHEREOF, the undersigned have executed this Certificate on the 29th day of August, A.D. 2007.

By: Jeffery A. Bynum
(Authorized Person(s))

Name: Jeffery A. Bynum, Sr. VP
Print or Type

State of West Virginia
Office of the Secretary of State

I, Betty Ireland, Secretary of State of West Virginia, do hereby certify this is a true and correct copy of the original record now in my official custody as Secretary of State.

Given under my hand and the Great Seal of the State of West Virginia

on 10.9.07

Betty Ireland

Betty Ireland, Secretary of State

By Carol Miller
Clerk

Notice: This is an official certification only when record sent in red ink.

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 12th day of September, 2007 was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 29th day of October 2007 at 11:42 o'clock A M.

TESTE: Jan Pest Clerk.

CPS 5M 7-07

ASSIGNMENT AND BILL OF SALE

STATE OF WEST VIRGINIA §
§
COUNTY OF MARSHALL §

JIM LAND SERVICE INC
11106 STATE HIGHWAY 18
CONNEAUT LAKE , PA 16316-3620

THIS ASSIGNMENT AND 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, Dallas, 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, a Texas limited partnership, having an office at 3131 West 7th Street, 4th Floor, Fort Worth, TX 76107 ("**Radler**" and together with Chief "**Chief/Radler**"), and Enerplus Resources (USA) Corporation, 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 Center 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 sufficiency of which is hereby acknowledged by Assignors, Assignors do hereby GRANT, BARGAIN, SELL, CONVEY, ASSIGN, TRANSFER, and SET OVER unto Assignee, effective as 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 assets (collectively, the "**Subject Properties**"):

(a) All of the oil, 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 wells 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 ("**Hydrocarbons**");

(c) All presently existing and valid, oil, gas or mineral unitization, pooling, and/or communitization agreements, 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 presently 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 materials, supplies, machinery, equipment, improvements and other personal property and fixtures, including, but not limited to, all wellhead equipment, pumping units, wellsite flowlines, 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 r aintenance thereof;

(f) To the ext ent 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 exte nt 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, rec ords, documentation and data of Assignors or their Affiliates that relate to the Subject Properties, including any correspondence, information and reports (including petroleum 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 record s, 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 inc uding 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/RADLER, 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 ENERPLUS, PURSUANT TO THE ENERPLUS PURCHASE AGREEMENT, SUBJECT TO THE PERMITTED ENCUMBRANCES (AS DEFINED IN THE ENERPLUS PURCHASE AGREEMENT), ENERPLUS 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 ENERPLUS, 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 OTHERWISE) 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

4.1 **Purchase Agreements.** As to the Subject Properties assigned hereunder by Chief/Radler, this Assignment is made 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 certain 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 joint 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 successors, 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 facilitate recordation or filing of this Assignment, each counterpart filed with a county or state agency 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]

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

By: _____
Name: Glynne Mildren
Title: Senior Vice President - Land

Chief Oil & Gas LLC

By: _____
Name: Glynne Mildren
Title: Senior Vice President - Land

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

By: _____
Name: Michael G. Radler
Title: President

Enerplus Resources (USA) Corporation

By: _____
Name: Roxanne Forst
Title: Attorney-in-Fact

ASSIGNEE:

Chevron U.S.A. Inc.

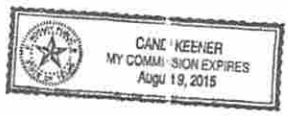
By: Ann Wacker
Name: Ann Wacker
Title: Assistant Secretary

STATE OF TEXAS §

COUNTY OF DALLAS §

On this, the 23rd day of June, 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) 

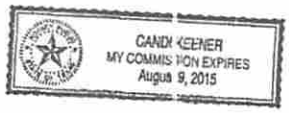
My Commission expires: _____

STATE OF TEXAS §

COUNTY OF DALLAS §

On this, the 23rd day of June, 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 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) 

My Commission expires: _____

STATE OF TEXAS §

COUNTY OF DALLAS §

On this, the 23rd day of June, 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 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 hereunto set my hand and official seal.

(Notarial Seal) NOTARY PUBLIC STATE OF TEXAS Mark Wilson My Commission Expires 05/26/2013

My Commission expires: _____

STATE OF TEXAS §

COUNTY OF DALLAS §

On this, the 23rd day of June, 2011, before me, the undersigned officer, personally appeared Roxanne Forst, known to me to be the person whose name is subscribed as attorney-in-fact 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) NOTARY PUBLIC STATE OF TEXAS Mark Wilson My Commission Expires 05/26/2013

My Commission expires: _____

BOOK 025 PAGE 008

STATE OF TEXAS §

COUNTY OF DALLAS §

On this, the 24th day of June, 2011, before me, the undersigned officer, personally appeared Ann Wacker, who acknowledged 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 therein contained, by signing the name of the corporation by her as said officer.

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

My Commission expires: _____

Jan Pest
MARSHALL County 09:06:51 AM
Instrument No 1308157
Date Recorded 07/21/2011
Document Type AGN
Pages Recorded 104
Book-Page 25-1
Recording Fee $104.00
Additional $16.00

BOOK 025 PAGE 104

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 & Gas LLC, (jointly "Chief"), Radler 2000 Limited Partnership, ("Radler" and together with Chief "Chief/Radler"), and Enerplus Resources (USA) Corporation, ("Enerplus" and together with Chief/Radler, "Assignors"), and Chevron U.S.A. Inc., Multiple Counties, State of West Virginia.

CONTRACT ID	DESCRIPTION	CONTRACT DATE	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, Grantor, Chief Exploration & Development LLC, Grantee, Chief Oil & Gas LLC, Operator	Surface Lease (FWIS) - Grimm Lumber, Inc.	PRESTON	WV
NECES-C067	Impoundments/ Frac pit agmts.	03/24/11	Kenneth W. Chidester and Helen L. Chidester, husband and wife, Grantor, Chief Exploration & Development LLC, Grantee, Chief Oil & Gas LLc, Operator	Surface Lease (Fresh Water Impoundment Site) - Kenneth W. Chidester, et ux	PRESTON	WV
	Assignment and Assumption of Agreement	02/01/11	CHIEF GATHERING, LLC CAIMAN PENN MIDSTREAM, LLC	Agreement for Caiman to transfer its rights under the May 1, 2009 Appalachian Gas Gathering Agreement to Chief Gathering limited to the Grimm Lease	PRESTON	WV
LEGAL-C522	Seismic Agreement		Chief Oil & Gas LLC, Licensor Marathon Oil Company, Licensee	Seismic Data License Agreement	PRESTON FAYETTE	WV PA

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

I, JAN PEST, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 5th day of July 2010, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this 21st day of July 2011 at 9:06 o'clock A M.

TESTE: Jan Pest Clerk.

CPS SM 5-11

Branden Weimer
Permitting Team Lead

Chevron Appalachia, LLC
800 Mountain View Drive
Smithfield, 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 U.S.A. Inc.

RECEIVED
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

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

Received

NOV 14 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-PN
(5-04-2012)

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 57th 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.oog@wv.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

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

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 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

MOUNDSVILLE DAILY ECHO
SINCE 1891

(304) 845-2660
P.O. BOX 369
MOUNDSVILLE
WEST VIRGINIA
26041

AFFIDAVIT OF PUBLICATION

STATE OF WEST VIRGINIA,
COUNTY OF MARSHALL, to wit

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

- that I am Legal Advertising Manager of the MOUNDSVILLE DAILY ECHO, a Republican newspaper;
- that I have been duly authorized to execute this affidavit;
- that such newspaper has been published for over 119 years, is regularly published afternoons dally except Saturdays and Sundays, for at least fifty weeks during the calendar year, in the municipality of Moundsville, Marshall County, West Virginia.
- 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;
- that such newspaper averages in length four or more pages, exclusive of any cover, per issue;
- that such newspaper is circulated to the general public at a definite price or consideration;
- that such newspaper is a newspaper to which the general public resorts far passing events of a political, religious, commercial and social nature and for current happenings, announcements, miscellaneous reading matters, advertisements and other notices;
- 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

Chevron Appalachia, LLC
Kristen Brooks
800 Mountain View Drive
Smithfield, PA 15478

WAS PUBLISHED IN-SAID NEWSPAPER AS FOLLOWS

Times	Dates
2	October 10, 17, 2014

BY WORDS	PUBLICATION CHARGES
533	$ 107.24

LEGAL ADVERTISEMENT

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: October 10, 2014 & October 17, 2014.

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

Address: 800 Mountain View Drive, Smithfield, PA 15478

Well Number: Taylor B 2H, 3H, 4H, 6H, 7H, 8H, 9H

Business Conducted: Natural gas production.

Location

State: West Virginia

County: Marshall

District: Clay

Quadrangle: Glen Easton, WV 7.5'

UTM Coordinate NAD83: 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

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:

WW-6AC
(1/12)

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

Date of Notice Certification: 10/31/2014

API No. 47- _____ - _____
Operator's Well No. 9H
Well Pad Name: Taylor B

Notice has been given:
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Viginia	UTM NAD 83 Easting:	526711.93
County:	Marshall	Northing:	4411912.38
District:	Clay	Public Road Access:	CR 17 - Fork Ridge Rd
Quadrangle:	Glen Easton, WV 7.5'	Generally used farm name:	Taylor B
Watershed:	Middle Grave Creek - Grave Creek		

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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☒ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☐ RECEIVED/ NOT REQUIRED
☒ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
☒ 5. PUBLIC NOTICE	☐ RECEIVED
☒ 6. NOTICE OF APPLICATION	☐ RECEIVED

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Required Attachments:
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
(1/12)

Certification of Notice is hereby given:

THEREFORE, I Alex Genovese, 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:	Chevron Appalachia, LLC	Address:	800 Mountain View Drive
By:			Smithfield, PA 15478
Its:	Construction Permitting Team Lead	Facsimile:	724-564-3894
Telephone:	724-564-3700	Email:	

NOTARY SEAL
COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Laura Savage, Notary Public
Georges Twp., Fayette County
My Commission Expires Sept. 17, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Commonwealth of Pennsylvania
County of Fayette
Subscribed and sworn before me this 31 day of October, 2014.

Laura Savage Notary Public

My Commission Expires 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 depprivacyofficer@wv.gov.

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Taylor B
Well Pad Name: 9H

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:** 11/10/14

Notice of:

☑ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

☐ PERSONAL SERVICE ☑ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT 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 serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

☑ 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: _____

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

☑ COAL OWNER OR LESSEE
Name: Consolidation Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

☐ COAL OPERATOR
Name: _____
Address: _____

☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Brendan McCarthy & Joseph Bojalad III
Address: Fork Ridge Rd
Moundsville, WV 26041

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
NOV 14 2014
Office of Oil & Gas
WV Department of Environmental Protection

WW-6A
(9-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Taylor B
Well Pad Name: 9H

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: 9/26/14 **Date Permit Application Filed:** _____

Notice of:

☑ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

☐ PERSONAL SERVICE ☑ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT 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 serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

☐ SURFACE OWNER(s)
Name: _____
Address: _____
_____
Name: _____
Address: _____
_____

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
_____
Name: _____
Address: _____
_____

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____
_____

☑ COAL OWNER OR LESSEE
Name: Murray Energy Corporation
Address: 46226 National Road
St. Clairsville, OH 43950

☐ COAL OPERATOR
Name: _____
Address: _____
_____

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____
_____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____
_____

*Please attach additional forms if necessary

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6A
(8-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Taylor B
Well Pad Name: 9H

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.

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Office of Oil and Gas
WV Dept. of Environmental Protection

Well Location Restrictions
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

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

Received
NOV 14 2014
Office of Oil and Gas
Dept. of Environmental Protection

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: 9H

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

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

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Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6A
(8-13)

API NO. 47- ____ - ____
OPERATOR WELL NO. Taylor B
Well Pad Name: 9H

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-3700
Email: ____
Facsimile: 724-564-3894

Angie Kerr

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.

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.

Thomas Basinger Notary Public

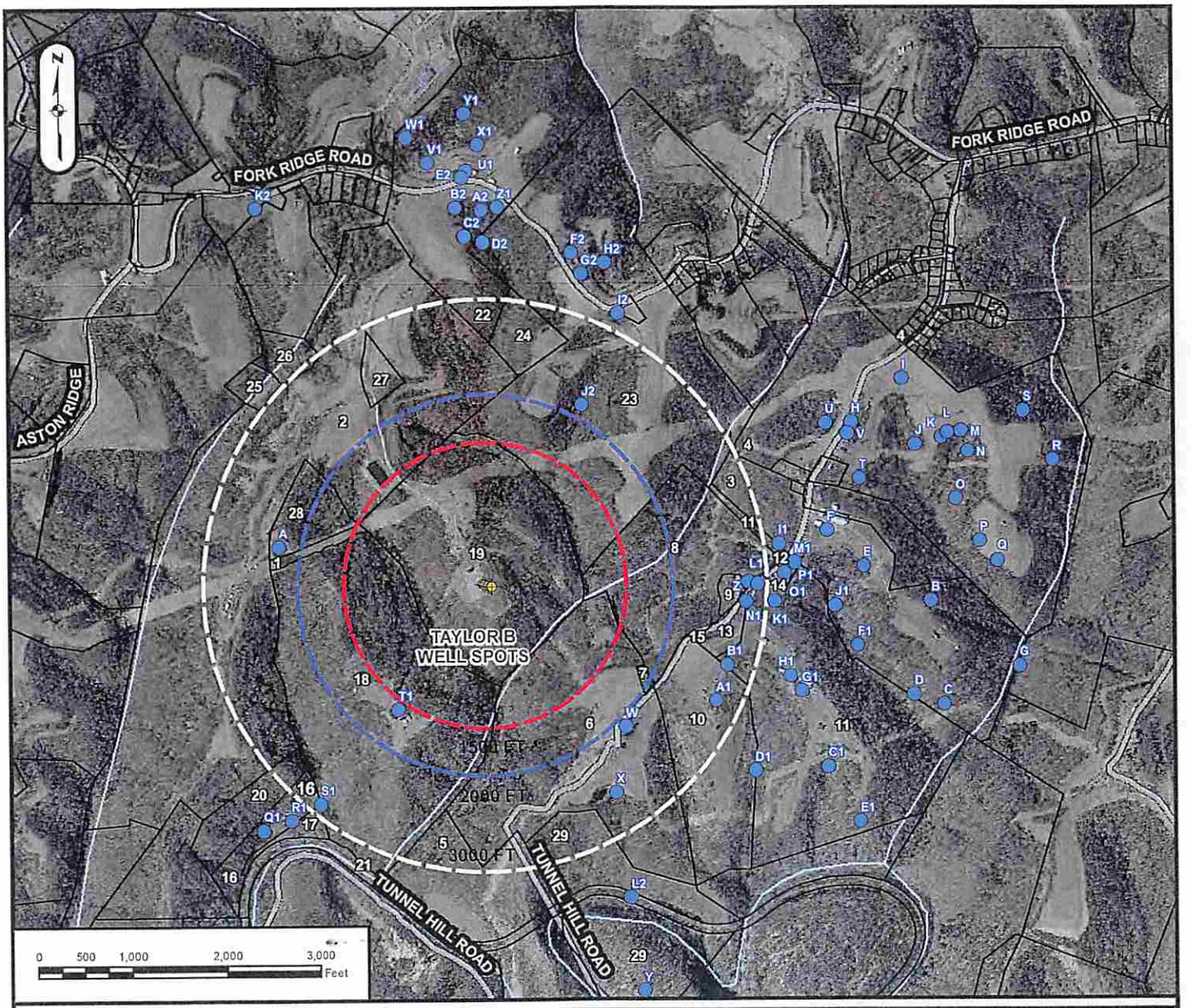
My Commission Expires 9/24/2017

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

WATER SUPPLY EXHIBIT
TAYLOR UNIT B

Date: 9/19/2014

Blue Mountain Inc.



1	Wilson, Cary & Trudy	4-10-19.2	9	Kuhn, Howard	3-12-3.1	17	Consolidation Coal Company	4-10-17	25	Aston, Lewis A. Jr. et ux	4-9-23
2	Taylor, Lee et ux Williams Energy Co.	4-10-21	10	Hardman, Mary	3-12-3.2	18	McCarthy, Brendan & Joseph Bojalad III	4-10-19	26	Standiford, William Roger et ux	4-9-23.8
3	Hudson, Brandy Jo & Douglas	3-11-7	11	Bungard, John	3-12-4	19	Taylor, Lee et ux Williams Energy Co.	4-10-20	27	Taylor, Lee et ux Williams Energy Co.	4-9-27
4	Blake, Herman & Evelyn	3-11-8	12	Kuhn, Howard & Mary	3-12-4.2	20	Sullivan, Robert Morris	4-10-22	28	Wilson, Cary & Trudy	4-10-19.1
5	Kuhn, Philip Est-Life/Howard Kuhn	3-12-1	13	Wells, Roger Dale et al	3-12-4.3	21	Consolidation Coal Company	4-10-23	29	Conkle, Lawrence & Shirley Ests (Roy Conkle)	9-2-4
6	Kuhn, Philip Est-Life/Howard Kuhn	3-12-2	14	Kuhn, Hubert & Andrea	3-12-4.4	22	Fletcher, Nelson et ux - life	4-9-19			
7	Kuhn, Hubert & Andrea	3-12-2.1	15	Wells, Roger Dale et al	3-12-4.5	23	Rulong, James Standiford, William - exec.	4-9-20			
8	Kuhn, Hubert & Andrea	3-12-3	16	Conner, David Shawn	4-10-16	24	Rulong, James Standiford, William - exec.	4-9-22			

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SURFACE OWNER: LEE TAYLOR, ET UX.

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

WELL OPERATOR: CHEVRON APPALACHIA, LLC

ADDRESS: 800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

PHONE: 724-564-3700

COUNTY: MARSHALL

DISTRICT: CLAY

SURVEYOR: BLUE MOUNTAIN INC.

ADDRESS: 11023 MASON DIXON HIGHWAY
BURTON, WV 26562

PHONE: 304-662-6486

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-6A4
(1/12)

Operator Well No. Taylor B 9H

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 09/25/2014 **Date Permit Application Filed:** 11/10/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

☐ HAND DELIVERY ☑ CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided,* That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however,* That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Williams Ohio Valley Midstream LLC
Address: 100 Teletech Drive, Suite 2
Moundsville, WV 26041

Name:
Address:

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Marshall
District: Clay
Quadrangle: Glen Easton, WV 7.5'
Watershed: Middle Grave Creek - Grave Creek

UTM NAD 83 Easting: 526711.93
Northing: 4411912.38
Public Road Access: CR 17 Fork Ridge Rd
Generally used farm name: Taylor B

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-3700
Email:
Facsimile: 724-564-3894

Authorized Representative:
Address:
Telephone:
Email:
Facsimile:

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

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 9H

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 09/26/2014 **Date Permit Application Filed:** 11/10/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Received
NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Williams Ohio Valley Midstream LLC
Address: 100 Teletech Drive, Suite 2
Moundsville, WV 26041

Name:
Address:

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Marshall
District: Clay
Quadrangle: Glen Easton, WV 7.5'
Watershed: Middle Grave Creek - Grave Creek

UTM NAD 83 Easting: 526711.93
Northing: 4411912.38
Public Road Access: CR 17 Fork Ridge Rd
Generally used farm name: Taylor B

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email:

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894

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-6AW
(1-12)

API NO. 47-_____-_____
OPERATOR WELL NO. 9H
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, Brenda McCarthy hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	526711.93
County:	Marshall	Northing:	4411912.38
District:	Clay	Public Road Access:	CR 17 Fork Ridge Road
Quadrangle:	Glen Easton, WV 7.5'	Generally used farm name:	Taylor B
Watershed:	Middle Grave Creek - Grave Creek		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☐ SURFACE OWNER
- ☐ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☒ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: [signature]
Print Name: Brenda McCarthy
Date: 10-22-2014

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

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NOV 14 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

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.

4705101799

WW-6AW
(1-12)

API NO. _____
OPERATOR WELL NO. Taylor B 9H
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, Alex O'Neill, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	West Virginia North State Plane NAD 27	East:	1,666,514.640 ft
County:	Marshall		North:	496,364.788 ft
District:	Clay	Public Road Access:		
Quadrangle:	GLEN EASTON	Generally used farm name:		TAYLOR B
Watershed:				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that Chevron U.S.A. Inc. drills the well on West Virginia North State Plane NAD 27 coordinates of North 496,364.788 ft, East 1,666,514.640 ft in accordance with the Agreement between Consolidation Coal Company, Murray American Energy and Chevron U.S.A. Inc. dated 2015-04-01.**

*Please check the box that applies

- ☐ SURFACE OWNER
- ☐ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☒ COAL OWNER OR LESSEE
- ☒ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

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APR - 6 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

FOR EXECUTION BY A NATURAL PERSON

Signature: _____
Print Name: _____
Date: _____

FOR EXECUTION BY A CORPORATION, ETC.

Company: Consolidation Coal Company
By: Alex O'Neill
Its: Coal, Oil & Gas Relations Manager
Signature: _____
Date: 4/2/2015

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

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 2H Taylor B Unit 3H Taylor B Unit 4H Taylor B Unit 6H
Taylor B Unit 7H Taylor B Unit 8H Taylor B Unit 9H

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

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office Oil &Gas Coordinator

Cc: Kristen R. Brooks
Chevron Appalachia, LLC
CH, OM, D-6
File

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WV Dept. of Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

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

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	

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

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

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 i9s subject to 29 CFR 1910.1200(i) and Appendix D.

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