



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

December 09, 2015

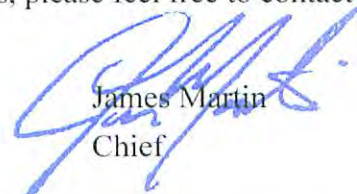
WELL WORK PERMIT
Replacement Borehole H6A

This permit, API Well Number: 47-5101874, 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: 2HA
Farm Name: WILLIAMS OHIO VALLEY MIDS1
API Well Number: 47-5101874
Permit Type: Replacement Borehole H6A
Date Issued: 12/08/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) 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. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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

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

2) Operator's Well Number: 2HA Well Pad Name: Taylor C

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

4) Elevation, current ground: 1257' Elevation, proposed post-construction: 1236'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6533', 49' - 0.64 psi/ft

8) Proposed Total Vertical Depth: 6555'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,347'

11) Proposed Horizontal Leg Length: 7167

12) Approximate Fresh Water Strata Depths: 470' GL

13) Method to Determine Fresh Water Depths: 1 mi radius offset wells, freshwater wells, and freshwater base level

14) Approximate Saltwater Depths: 1276', 1880'-2370' KB: Francis 1V offset well

15) Approximate Coal Seam Depths: 800' GL

16) Approximate Depth to Possible Void (coal mine, karst, other): None

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: Ireland Mine
Depth: 800' GL
Seam: Pittsburgh No. 8'
Owner: CONSOL Energy

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Page 1 of 3

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18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New			40'	40'	141.8
Fresh Water	13-3/8"	New	J-55	54.5#	520'	520'	691.0
Intermediate	9-5/8"	New	J-55	40#	2,104'	2,104'	941.0
Production	5-1/2"	New	P-110	20#	14,354'	14,354'	3456.0
Tubing							
Liners							

E. BHO 12/2/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"					
Fresh Water	13-3/8"	17-1/2"	0.380"	2,730 psi	1,911 psi	Class A	1.18
Intermediate	9-5/8"	12-1/4"	0.395"	3,950 psi	2,768 psi	Class A	1.29
Production	5-1/2"	8-1/2"	0.361"	12,640 psi	9,975 psi	Class A	1.61
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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C. BLO 12/2/15

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 2,330' then run and cement to surface 9 5/8" casing, covering the Big Injun. Drill 8 1/2" hole to KOP at 5,478'. Drill 8 1/2" curve and lateral to 14,354' MD and 6,555 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 38 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): 22.01

22) Area to be disturbed for well pad only, less access road (acres): 4.66

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.

GCS
12/8/15

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%~~ 3% 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.

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.

W. J. ...
California ...

DEC 8 2015

...
...
...

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

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 will reuse at next anticipated well)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

E. B. O 12/2/15

Will closed loop system be used? If so, describe: Yes. The system will remove drill cuttings from the drilling fluid. The drill cuttings are then prepared for transportation to an off-site 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 # 100172; South Hills Landfill - Permit # 100592

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 Jenny Hayes
Company Official (Typed Name) Jenny Hayes
Company Official Title Permitting Team Lead

Subscribed and sworn before me this 30th day of November, 20 15

Kristen Brooks

Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My commission expires Sept 2, 2018

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 22.01 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: C. B. [Signature] 12/2/15

Comments: _____

Title: Oil & Gas Inspector Date: 12/2/15

Field Reviewed? Yes No

Office of Oil and Gas
DEC 03 2015
Environmental Protection

CHEVRON
APPALACHIA, LLC



West Virginia Well Site Safety Plan

Taylor C Site Well 2HA Marshall County, West Virginia

Prepared in Conformance with:

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

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

Revision 1

Original: September 2012

Revised: June 2013

Revised: May 2014

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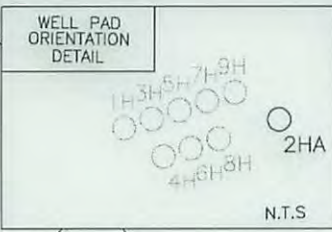
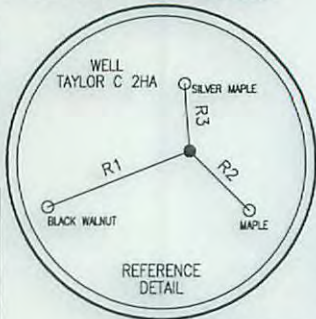
WV Department of
Environmental Protection

12/11/2015

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

Well is located on topo map 8,443 feet south of Latitude: 39° 52' 30"

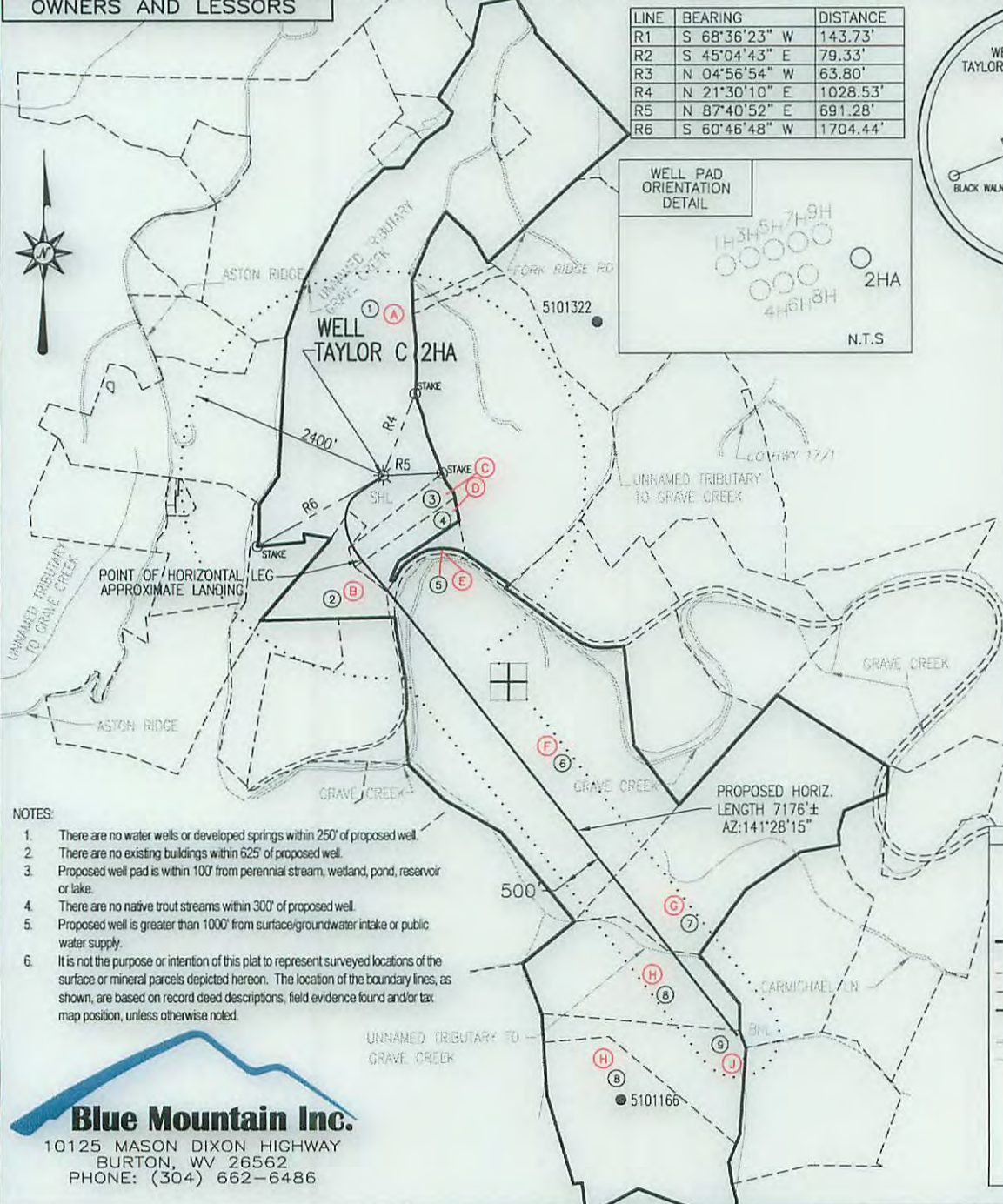
LINE	BEARING	DISTANCE
R1	S 68°36'23" W	143.73'
R2	S 45°04'43" E	79.33'
R3	N 04°56'54" W	63.80'
R4	N 21°30'10" E	1028.53'
R5	N 87°40'52" E	691.28'
R6	S 60°46'48" W	1704.44'



SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4411354.969
 E:525904.007
 NAD 83, WV NORTH
 N:494616.683
 E:1632396.453
 LAT/LON DATUM-NAD83
 LAT:39.851822
 LON:-80.697185

APPROX. LANDING POINT
 UTM 17-NAD83
 N:4411053.21
 E:525829.53
 NAD 83, WV NORTH
 N:493630.55
 E:1632135.51
 LAT/LON DATUM-NAD83
 LAT:39.849105
 LON:-80.698067

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4409362.71
 E:527222.44
 NAD 83, WV NORTH
 N:488006.81
 E:1636613.62
 LAT/LON DATUM-NAD83
 LAT:39.833831
 LON:-80.681856



- 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 pad is within 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.

Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

LEGEND

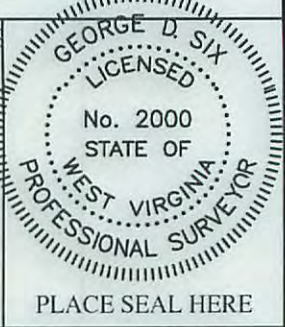
- ⊕ - TOPO MAP POINT
- ⊙ - WELL
- - ALL ARE POINTS UNLESS OTHERWISE NOTED.
- - MINERAL TRACT BOUNDARY
- - - - - PARCEL LINES
- - - - - WELL REFERENCE
- - - - - PROPOSED HORIZONTAL WELL
- - - - - ROAD
- - - - - STREAM CENTER LINE
- Ⓐ - LESSORS
- Ⓛ - SURFACE OWNERS
- ⊙ - GAS WELLS
- - EXISTING WELLS
- ⊙ - PLUGGED WELLS

Well is located on topo map 8,568 feet west of Longitude: 80° 40' 00"

FILE #: TAYLOR C 2HA
 DRAWING #: TAYLOR C 2HA
 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: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



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

DATE: DECEMBER 1, 2015
 OPERATOR'S WELL #: TAYLOR C 2HA
 API WELL #: 47 51 **01874**
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1257.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM LLC ACREAGE: 265.439±

OIL & GAS ROYALTY OWNER: LEE R. & SHERRI L. TAYLOR ACREAGE: 741.135± **12/11/2015**

DRILL 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: 6,555'± TMD: 14,347'±

WELL OPERATOR: CHEVRON APPALACHIA, LLC DESIGNED 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 C

2HA

PAGE 2 OF 2

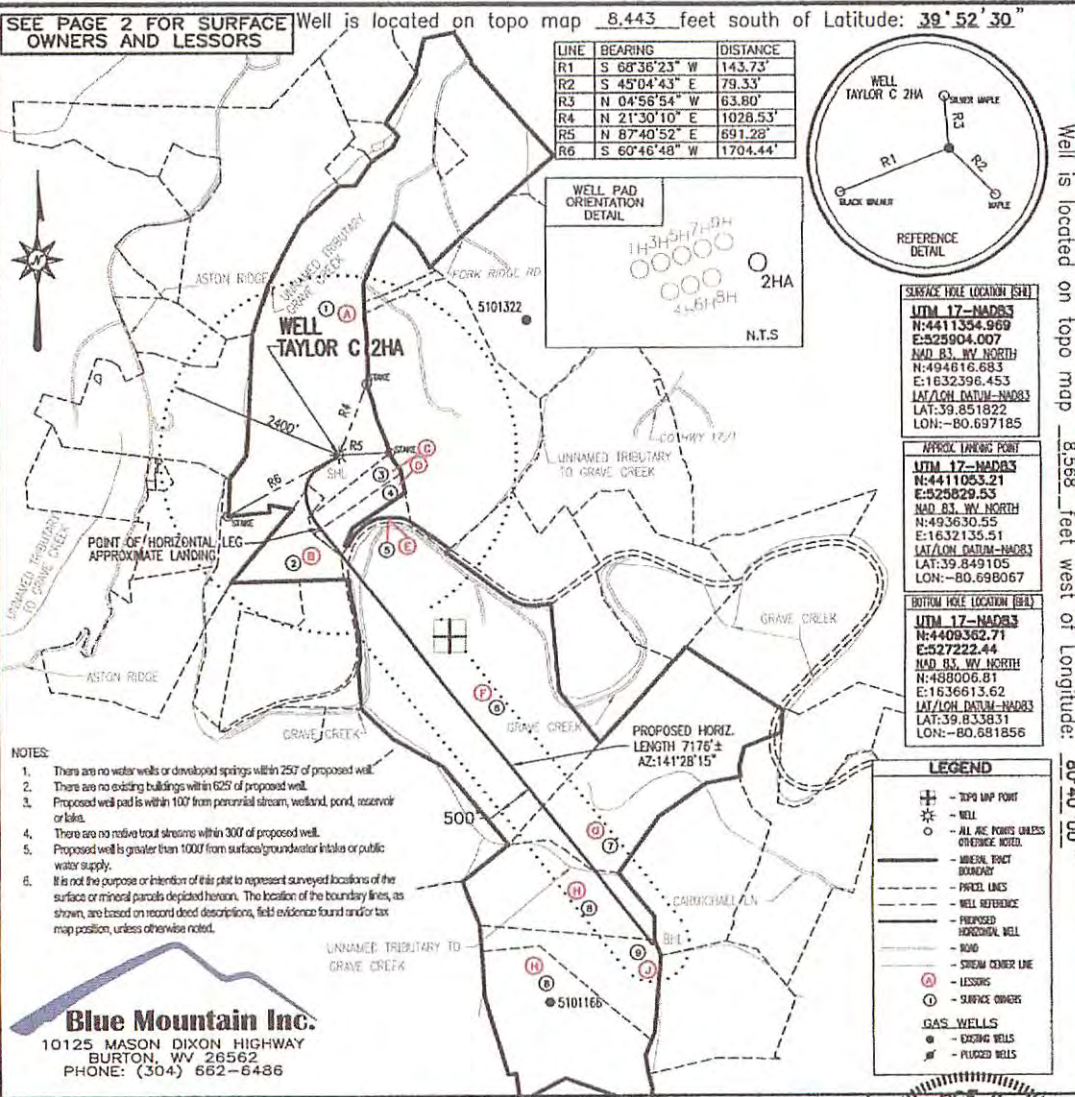
	SURFACE OWNER	DIST-TM/PAR
1	WILLIAMS OHIO VALLEY MIDSTREAM LLC	4-10/21
2	ROBERT MORRIS SULLIVAN	4-10/15
3	ROBERT MORRIS SULLIVAN	4-10/22
4	DAVID SHAWN CONNER	4-10/16
5	MURRAY ENERGY	4-10/23
6	CNX LAND RESOURCES INC.	9-2/3
7	GEORGE B. & MARY L. CROW	9-2/6
8	CNX LAND, LLC	9-2/12.1
9	HARRY J. CRAWFORD ET UX - LIFE	9-2/12

	LESSOR
A	LEE R. & SHERRI L. TAYLOR
B	ROBERT MORRIS SULLIVAN
C	ROBERT MORRIS SULLIVAN
D	DAVID SHAWN CONNER
E	CONSOL
F	OKEY D. & JANINA A. BURTON
G	ROSS AVENUE MINERALS 2012, LLC
	BELMONT ROYALTY AND MINERALS 2012, LLC
H	HARRY J. CRAWFORD ET AL
J	HARRY J. CRAWFORD ET AL

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DECEMBER 1, 2015



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DATE: NOVEMBER 30, 2015
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 API WELL #: 47 51
 STATE COUNTY PERMIT

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 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,555± TMD: 14,347±
 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

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 8,568 feet west of Longitude: 80° 40' 00"

12/11/2015

TAYLOR C 2HA PAGE 2 OF 2

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 E:527222.44
 MAG. ST. BY NORTH
 N:489006.81
 E:1638613.62
 LAT/LON DATUM-NAD83
 LAT:39.833831
 LON:-80.681898

NOVEMBER 30, 2015

C. BLO
12/2/15

**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
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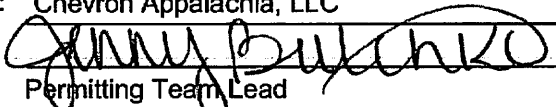
see attached

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

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

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

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

Well Operator: Chevron Appalachia, LLC
 By: 
 Its: Permitting Team Lead

Parcel	Lessor	Lessee	Royalty	DB/PG	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
(A)	Lee R. & Sherri L. Taylor	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.
(B) (C)	Robert Morris Sullivan	Chevron U.S.A Inc.	16%	776/395	N/A	N/A	N/A
(D)	David Shawn Conner	TriEnergy Holdings, LLC	18.75%	705/486	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.
(E)	CNX Gas Company, LLC	Chevron U.S.A Inc.	25%	818/553	N/A	N/A	N/A
(F)	Okey D. & Janina A. Burton	TriEnergy, Inc.	14%	740/614	BK21/PG156-- TriEnergy, Inc. to TriEnergy Holdings, LLC 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.
(G)	Kernan, Charles R., et ux	Central Michigan Exploration, LLC	16%	668/151	BK21/PG288-- Central Michigan Exploration, LLC to Stone Energy Corporation	BK33/PG276-- Stone Energy Corporation to Chevron U.S.A. Inc.	N/A

Department of
 Conservation
 Michigan
 Oil and Gas

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71874-51

Parcel	Lessor	Lessee	Royalty	DB/PG	ASSIGNMENT 1	ASSIGNMENT 2	ASSIGNMENT 3
(J) (H)	Harry J. Crawford et al	TriEnergy, Inc.	12.5%	661/156	BK20/PG252-- 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.

PARCEL	LESSOR
A	Lee R. & Sherri L. Taylor
B	Robert Morris Sullivan
C	Robert Morris Sullivan
D	David Shawn Conner
E	CNX Gas Company, LLC
F	Okey D. & Janina A. Burton
G	Charles R. Kernan et ux
H	Harry J. Crawford et al
J	Harry J. Crawford et al

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 Department of
 Conservation

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of
Office
Gas

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Cross Reference
ASN 24-490

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

12/11/2015

Department of
Oil and Gas
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- 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%

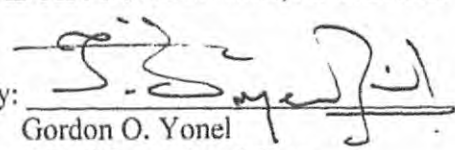
- 5. Save and except the Assigned Interests, all other rights, titles and interests owned by Assignor in, to and under the Leases and the Lands are expressly reserved by Assignor and are not herein conveyed or assigned to Assignee.

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

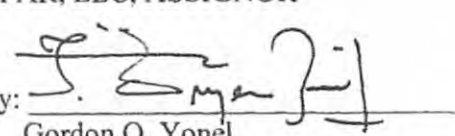
AB
LEGAL
CLS 6-16-11

By: 
Gordon O. Yonel
Its: Chief Executive Officer

Notes

NPAR, LLC, ASSIGNOR

AB
LEGAL
CLS 6-16-11

By: 
Gordon O. Yonel
Its: Chief Executive Officer

Notes

Notice of Assignment
REC'D 8 2015
Oil and Gas
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ASSIGNEES

CHIEF EXPLORATION & DEVELOPMENT LLC

RADLER 2000 LIMITED PARTNERSHIP

By: [Signature]
Glynis Mildren
Its: Senior Vice President - Land

By: [Signature]
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

[Signature]
Notary Public



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

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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.



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 Glynnne 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.



Marie G. Veit
Notary Public

51-01874

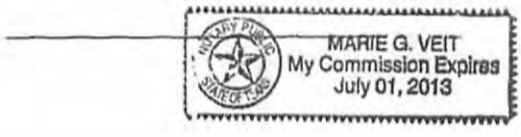
BOOK 024 PAGE 470

State of Texas)
County of Dallas) ss:

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
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



SI-01874



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

December 1, 2015

RE: Taylor C #2HA

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 lateral. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

Ian J. Durham
Land Representative

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DEC 03 2015
West Virginia Department of
Environmental Protection

12/11/2015

Replacement Booklet

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

Date of Notice Certification: 12/02/2015

API No. 47- DSI - 01874
Operator's Well No. 2HA
Well Pad Name: Taylor C

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:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>525904.007</u>
County:	<u>Marshall</u>	Northing:	<u>4411354.969</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 17 - Fork Ridge Road</u>
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Taylor C</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</u>		

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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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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 notified 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.

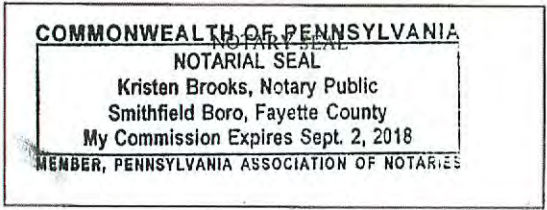
SI-01874

WW-6AC
(1/12)

Certification of Notice is hereby given:

THEREFORE, I Jenny Hayes, 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:	<u>Chevron Appalachia, LLC</u>	Address:	<u>800 Mountain View Drive</u>
By:	<u>Jenny Hayes</u>		<u>Smithfield, PA 15478</u>
Its:	<u>Permitting Team Lead</u>	Facsimile:	<u>724-564-3894</u>
Telephone:	<u>724-564-3700</u>	Email:	<u></u>



Subscribed and sworn before me this 2nd day of December, 2015
Kristen Brooks Notary Public
 My Commission Expires Sept 2, 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.

**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: 11/30/15 **Date Permit Application Filed:** 12/2/15

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: Consolidated Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR

Name: Murray Energy Corporation
Address: 46226 National Road
St. Clairsville, OH 43950

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

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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.**

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.

WW-6A
(8-13)

API NO. 47-51 ~~01801~~ 01874RB
OPERATOR WELL NO. 2HA
Well Pad Name: Taylor C

Notice is hereby given by:

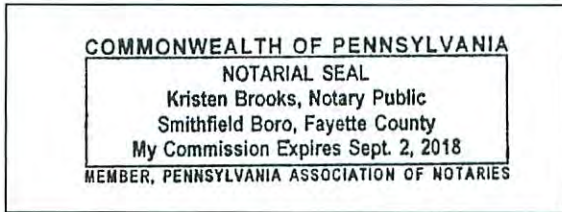
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email: _____

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 deprivacyofficer@wv.gov.

Jenny Hayes



Subscribed and sworn before me this 30th day of November 2015

Kristen Brooks

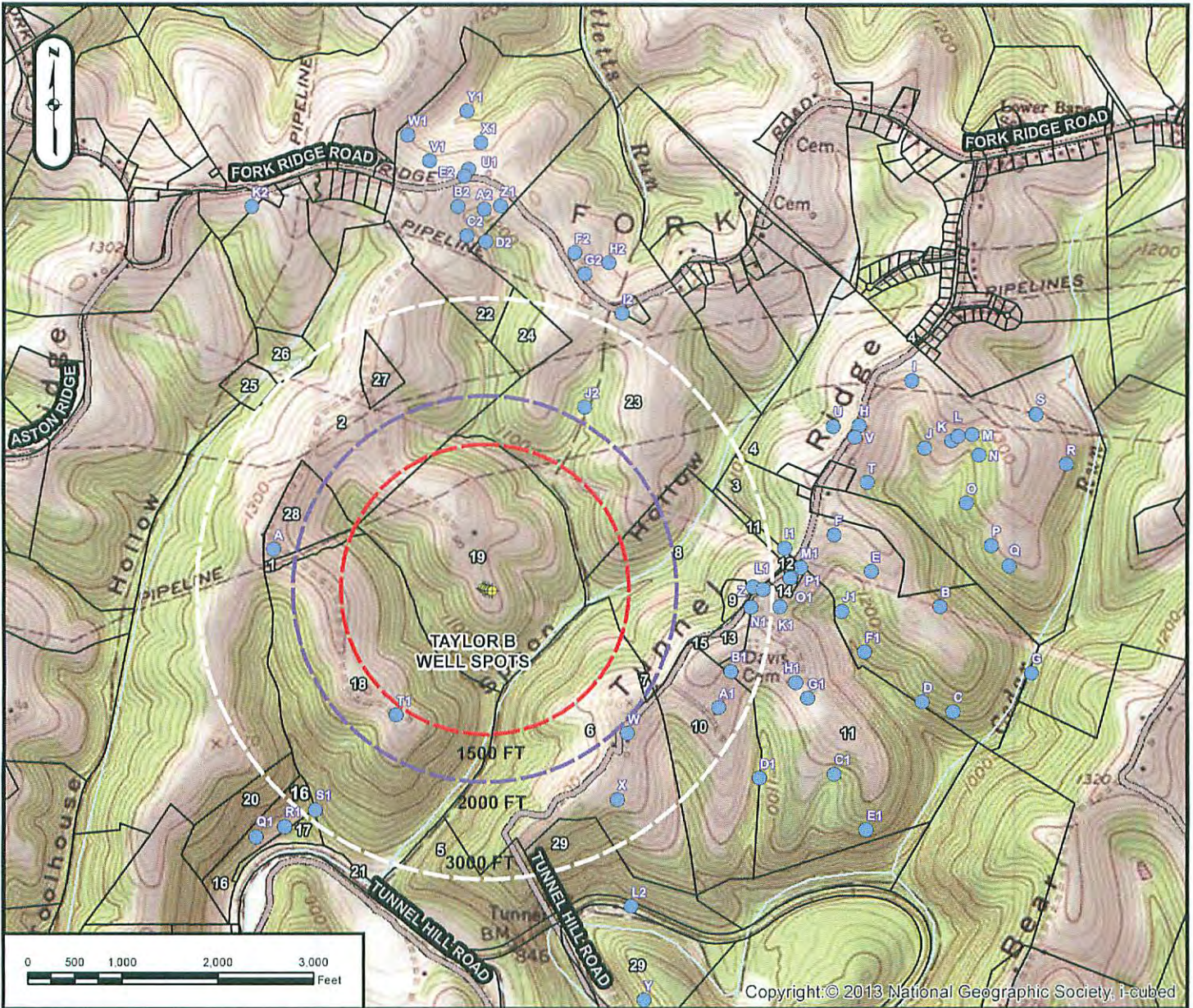
Notary Public

My Commission Expires Sept 2, 2018

WATER SUPPLY EXHIBIT TAYLOR UNIT B

Replacement 51-01874
Borehole
Blue Mountain Inc.

Date: 9/19/2014



1	Wilson, Cary & Trudy Taylor, Lee et ux	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	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	4-9-20			
8	Kuhn, Hubert & Andrea	3-12-3	16	Conner, David Shawn	4-10-16	24	Standiford, William - exec	4-9-22			

SURFACE OWNER: LEE TAYLOR, ET UX.

COUNTY: MARSHALL

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

DISTRICT: CLAY

WELL OPERATOR: CHEVRON APPALACHIA, LLC

SURVEYOR: BLUE MOUNTAIN INC.

ADDRESS: 800 MOUNTAIN VIEW DRIVE

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

SMITHFIELD, PA 15478

PHONE: 724-564-3700

PHONE: 304-662-6486

12/11/2015

WATER SUPPLY EXHIBIT TAYLOR UNIT B

Date: 9/19/2014



SI-01874 RB

NO.	NAME	SUPPLY	ADDRESS	PHONE
A	Wilson, Cary & Trudy	WELL	845 SPOON LN MOUNDSVILLE, WV 26041	NA
B	Hudson, Brandy Jo & Douglas	SPRING 1	330 BUNSON LANE GLEN EASTON, WV 26039	304-280-4175
C	Hudson, Brandy Jo & Douglas	POND 1	330 BUNSON LANE GLEN EASTON, WV 26039	304-280-4175
D	Hudson, Brandy Jo & Douglas	SPRING 2	330 BUNSON LANE GLEN EASTON, WV 26039	304-280-4175
E	Hudson, Brandy Jo & Douglas	POND 2	330 BUNSON LANE GLEN EASTON, WV 26039	304-280-4175
F	Hudson, Brandy Jo & Douglas	SPRING 3	330 BUNSON LANE GLEN EASTON, WV 26039	304-280-4175
G	Hudson, Brandy Jo & Douglas	STREAM	330 BUNSON LANE GLEN EASTON, WV 26039	304-280-4175
H	Blake, Herman & Evelyn	WELL 1	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
I	Blake, Herman & Evelyn	SPRING 1	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
J	Blake, Herman & Evelyn	SPRING 2	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
K	Blake, Herman & Evelyn	SPRING 3	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
L	Blake, Herman & Evelyn	SPRING 4	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
M	Blake, Herman & Evelyn	SPRING 5	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
N	Blake, Herman & Evelyn	SPRING 6	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
O	Blake, Herman & Evelyn	SPRING 7	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
P	Blake, Herman & Evelyn	SPRING 8	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
Q	Blake, Herman & Evelyn	SPRING 9	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
R	Blake, Herman & Evelyn	SPRING 10	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150

DISTANCE FROM WELL:									
NO.	SUPPLY COORDINATES	2H	3H	4H	5H	6H	7H	8H	9H
A	39.857789°N, -80.695868°W	2209	2224	2239	2254	2269	2284	2299	2314
B	39.856808°N, -80.671099°W	4769	4754	4739	4725	4710	4696	4681	4666
C	39.853835°N, -80.670493°W	5063	5048	5033	5018	5003	4988	4973	4958
D	39.854093°N, -80.671630°W	4731	4716	4701	4686	4671	4656	4641	4626
E	39.857743°N, -80.673679°W	4056	4042	4028	4013	3999	3985	3970	3956
F	39.858731°N, -80.675089°W	3709	3696	3682	3668	3654	3641	3627	3613
G	39.855009°N, -80.667629°W	5784	5769	5754	5739	5724	5709	5694	5679
H	39.861875°N, -80.674305°W	4273	4261	4250	4238	4226	4214	4203	4191
I	39.863178°N, -80.672410°W	4960	4949	4938	4926	4915	4904	4892	4881
J	39.861292°N, -80.671858°W	4829	4816	4804	4791	4779	4766	4753	4741
K	39.861531°N, -80.670868°W	5120	5107	5095	5082	5069	5057	5044	5032
L	39.861671°N, -80.670639°W	5198	5185	5172	5160	5147	5135	5122	5110
M	39.861724°N, -80.670114°W	5343	5330	5318	5305	5292	5280	5267	5255
N	39.861142°N, -80.669839°W	5351	5338	5325	5312	5299	5286	5273	5260
O	39.859757°N, -80.670252°W	5114	5100	5087	5073	5059	5046	5032	5019
P	39.858581°N, -80.669279°W	5315	5301	5287	5273	5259	5245	5230	5216
Q	39.858029°N, -80.668595°W	5487	5473	5458	5444	5430	5416	5401	5387
R	39.860976°N, -80.666597°W	6213	6200	6186	6173	6159	6146	6133	6119

12/11/2015

WATER SUPPLY EXHIBIT TAYLOR UNIT B

Date: 9/19/2014

51-01874 RB

Blue Mountain Inc.

NO.	NAME	SUPPLY	ADDRESS	PHONE
S	Blake, Herman & Evelyn	SPRING 11	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
T	Blake, Herman & Evelyn	SPRING 12	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
U	Blake, Herman & Evelyn	SPRING 13	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
V	Blake, Herman & Evelyn	WELL 2	654 SAWMILL LN GLEN EASTON, WV 26039	304-843-2150
W	Kuhn, Philip Est-Life/Howard Kuhn	WELL	1440 SAWMILL LN GLEN EASTON, WV 26039	304-845-2759
X	Kuhn, Philip Est-Life/Howard Kuhn	POND	1440 SAWMILL LN GLEN EASTON, WV 26039	304-845-2759
Y	Kuhn, Hubert & Andrea	WELL	1293 SAWMILL LN GLEN EASTON, WV 26039	304-845-7971
Z	Kuhn, Howard	WELL	1440 SAWMILL LN GLEN EASTON, WV 26039	304-845-7971
A1	Hardman, Mary	WELL	1270 SAWMILL LN GLEN EASTON, WV 26039	304-845-8825
B1	Hardman, Mary	SPRING	1270 SAWMILL LN GLEN EASTON, WV 26039	304-845-8825
C1	Bungard, John	POND	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
D1	Bungard, John	SPRING 1	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
E1	Bungard, John	SPRING 2	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
F1	Bungard, John	SPRING 3	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
G1	Bungard, John	WELL 1	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
H1	Bungard, John	WELL 2	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
I1	Bungard, John	SPRING 4	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
J1	Bungard, John	SPRING 5	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724

DISTANCE FROM WELL:									
NO.	SUPPLY COORDINATES	2H	3H	4H	5H	6H	7H	8H	9H
S	39.862366°N, -80.667769°W	6042	6029	6016	6004	5991	5978	5966	5953
T	39.860259°N, -80.673943°W	4155	4142	4129	4116	4103	4091	4078	4065
U	39.861828°N, -80.675265°W	4023	4012	4000	3988	3977	3966	3954	3943
V	39.861542°N, -80.674444°W	4187	4175	4163	4151	4139	4128	4116	4104
W	39.852902°N, -80.682521°W	2134	2121	2108	2095	2082	2069	2056	2043
X	39.851005°N, -80.682806°W	2607	2596	2585	2574	2563	2552	2541	2530
Y	39.845329°N, -80.681574°W	4592	4583	4574	4565	4556	4547	4539	4530
Z	39.857191°N, -80.678019°W	2828	2814	2799	2785	2770	2756	2741	2727
A1	39.853735°N, -80.679142°W	2762	2747	2732	2718	2703	2688	2673	2659
B1	39.854778°N, -80.678750°W	2732	2717	2702	2687	2672	2657	2642	2627
C1	39.851934°N, -80.674799°W	4144	4130	4115	4100	4086	4071	4057	4042
D1	39.851753°N, -80.677557°W	3499	3485	3470	3456	3442	3428	3414	3400
E1	39.850392°N, -80.673550°W	4718	4704	4689	4675	4661	4646	4632	4618
F1	39.855460°N, -80.673837°W	4034	4019	4004	3989	3974	3959	3944	3929
G1	39.854088°N, -80.675874°W	3577	3562	3547	3532	3517	3502	3487	3472
H1	39.854522°N, -80.676314°W	3416	3401	3386	3371	3356	3341	3326	3311
I1	39.858313°N, -80.676899°W	3183	3169	3155	3141	3127	3113	3100	3086
J1	39.856585°N, -80.674702°W	3759	3744	3729	3715	3700	3685	3671	3656

12/11/2015

WATER SUPPLY EXHIBIT TAYLOR UNIT B

Date: 9/19/2014

SI-01874 RB
Blue Mountain Inc.

NO.	NAME	SUPPLY	ADDRESS	PHONE
K1	Bungard, John	SPRING 6	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
L1	Bungard, John	WELL 3	201 Bungard Drive GLEN EASTON, WV 26039	304-845-1765 or 304-231-7724
M1	Kuhn, Howard & Mary	WELL	1440 SAWMILL LN GLEN EASTON, WV 26039	304-845-7971
N1	Wells, Roger Dale et al	WELL	1024 Sawmill LN GLEN EASTON, WV 26039	304-559-9261
O1	Kuhn, Hubert & Andrea	WELL 1	1293 SAWMILL LN GLEN EASTON, WV 26039	304-845-7971
P1	Kuhn, Hubert & Andrea	WELL 2	1293 SAWMILL LN GLEN EASTON, WV 26039	304-845-7971
Q1	Conner, David Shawn	SPRING	RR 5 BOX 184 MOUNDSVILLE, WV 26041	304-843-1568 or 304-312-7421
R1	Conner, David Shawn	WELL	RR 5 BOX 184 MOUNDSVILLE, WV 26041	304-843-1568 or 304-312-7421
S1	Conner, David Shawn	STREAM	RR 5 BOX 184 MOUNDSVILLE, WV 26041	304-843-1568 or 304-312-7421
T1	McCarthy, Brendan & Joseph Bojalad III	WELL	FORK RIDGE RD MOUNDSVILLE, WV 26041	412-979-0209
U1	Fletcher, Nelson et ux - life	WELL 1	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
V1	Fletcher, Nelson et ux - life	SPRING 1	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
W1	Fletcher, Nelson et ux - life	SPRING 2	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
X1	Fletcher, Nelson et ux - life	SPRING 3	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
Y1	Fletcher, Nelson et ux - life	STREAM 1	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
Z1	Fletcher, Nelson et ux - life	SPRING 4	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
A2	Fletcher, Nelson et ux - life	SPRING 5	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
B2	Fletcher, Nelson et ux - life	SPRING 6	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937

DISTANCE FROM WELL:									
NO.	SUPPLY COORDINATES	2H	3H	4H	5H	6H	7H	8H	9H
K1	39.856663°N, -80.676994°W	3115	3100	3085	3071	3056	3041	3027	3012
L1	39.857122°N, -80.677641°W	2933	2919	2904	2890	2875	2861	2846	2832
M1	39.857780°N, -80.676291°W	3327	3313	3298	3284	3270	3256	3242	3227
N1	39.856623°N, -80.678084°W	2809	2795	2780	2765	2751	2736	2721	2706
O1	39.857497°N, -80.676631°W	3223	3209	3194	3180	3166	3151	3137	3123
P1	39.857472°N, -80.676665°W	3213	3199	3184	3170	3156	3141	3127	3113
Q1	39.849613°N, -80.696153°W	3487	3494	3501	3508	3515	3522	3529	3537
R1	39.849931°N, -80.695121°W	3214	3220	3227	3233	3240	3246	3253	3260
S1	39.850425°N, -80.693994°W	2881	2887	2892	2898	2904	2910	2916	2922
T1	39.853211°N, -80.691131°W	1590	1595	1600	1606	1611	1617	1622	1628
U1	39.868749°N, -80.689122°W	4329	4333	4338	4342	4347	4351	4356	4361
V1	39.868953°N, -80.690582°W	4449	4455	4460	4466	4472	4478	4484	4489
W1	39.869659°N, -80.691426°W	4744	4750	4757	4763	4769	4776	4782	4789
X1	39.869518°N, -80.688701°W	4602	4606	4610	4614	4619	4623	4627	4631
Y1	39.870391°N, -80.689247°W	4928	4932	4937	4941	4946	4950	4955	4959
Z1	39.867738°N, -80.687905°W	3951	3954	3958	3961	3964	3968	3971	3975
A2	39.867642°N, -80.688513°W	3918	3922	3925	3929	3933	3937	3942	3946
B2	39.867688°N, -80.689498°W	3953	3957	3962	3967	3972	3977	3982	3988

12/11/2015

WATER SUPPLY EXHIBIT TAYLOR UNIT B

Date: 9/19/2014



NO.	NAME	SUPPLY	ADDRESS	PHONE
C2	Fletcher, Nelson et ux - life	SPRING 7	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
D2	Fletcher, Nelson et ux - life	STREAM 2	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
E2	Fletcher, Nelson et ux - life	WELL 2	5552 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-845-1937
F2	Rulong, James Standiford, William - exec.	WELL 1	5832 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-843-1271 (William)
G2	Rulong, James Standiford, William - exec.	WELL 2	5832 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-843-1271 (William)
H2	Rulong, James Standiford, William - exec.	SPRING	5832 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-843-1271 (William)
I2	Rulong, James Standiford, William - exec.	WELL 3	5832 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-843-1271 (William)
J2	Rulong, James Standiford, William - exec.	POND	5832 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-843-1271 (William)
K2	Standiford, William Roger et ux	SPRING	5211 FORK RIDGE RD MOUNDSVILLE, WV 26041	304-843-1271
L2	Conkle, Lawrence & Shirley Ests (Roy Conkle)	WELL		304-845-1808

DISTANCE FROM WELL:										
NO.	SUPPLY COORDINATES	2H	3H	4H	5H	6H	7H	8H	9H	
C2	39.866867°N, -80.689120°W	3645	3650	3654	3659	3664	3669	3673	3678	
D2	39.866711°N, -80.688415°W	3578	3582	3586	3589	3593	3597	3602	3606	
E2	39.868555°N, -80.689282°W	4262	4266	4271	4275	4280	4285	4290	4295	
F2	39.866488°N, -80.685076°W	3596	3596	3596	3596	3596	3596	3596	3597	
G2	39.865888°N, -80.684672°W	3414	3413	3413	3412	3411	3411	3410	3410	
H2	39.866229°N, -80.683777°W	3610	3608	3606	3605	3603	3602	3601	3599	
I2	39.864788°N, -80.683232°W	3183	3179	3176	3173	3170	3167	3165	3162	
J2	39.862129°N, -80.684501°W	2157	2153	2149	2146	2142	2139	2136	2132	
K2	39.867492°N, -80.697091°W	4615	4626	4637	4648	4659	4670	4681	4692	
L2	39.848007°N, -80.682164°W	3638	3629	3619	3610	3600	3590	3581	3572	

12/11/2015

WW-6AW
(1-12)

API NO. SI-01874RB
OPERATOR WELL NO. Taylor C 2HA
Well Pad Name: Taylor C

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:	<u>West Virginia</u>	<u>West Virginia</u>	East:	<u>1,663,832.965 ft</u>
County:	<u>Marshall</u>	<u>North State Plane</u>	North:	<u>494,580.008 ft</u>
District:	<u>Clay</u>	<u>NAD 27</u>	Public Road Access:	<u>CR 17 Fork Ridge Road</u>
Quadrangle:	<u>GLEN EASTON</u>	Generally used farm name:		
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

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 494,580.008 ft, East 1,663,832.965 ft in accordance with the Agreement between Murray American Energy, Inc. and Chevron U.S.A. Inc. dated 11/30/2015.**

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>Murray American Energy, Inc.</u></p> <p>By: <u>Alex O'Neill</u></p> <p>Its: <u>Coal, Oil & Gas Relations Manager</u></p> <p><i>Alex O'Neill</i></p> <p>Signature: _____</p> <p>Date: <u>11/30/2015</u></p>
--	--

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

12/11/2015



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 C Well Pad, Marshall County
Taylor C Unit 1H Taylor C Unit 2H Taylor C Unit 3H Taylor C Unit 4H
Taylor C Unit 5H Taylor C Unit 7H

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,

RECEIVED
Official
Gary K. Clayton, P.E. Oil & Gas
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator
DEC 9 3 2015

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

WV Department of
Environmental Protection

12/11/2015

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.

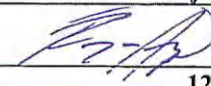
Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except 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, Ryan Arp, 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:	<u>West Virginia</u>	WVSPN NAD 27	Easting:	<u>1,663,832.965</u>
County:	<u>Marshall</u>		Northing:	<u>494,580.008</u>
District:	<u>Clay</u>	Public Road Access:	<u>CR 17 Fork Ridge Road</u>	
Quadrangle:	<u>BUSINESSBURG</u>	Generally used farm name:	_____	
Watershed:	<u>Middle Grave Creek - Grave Creek</u>			

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 WV North NAD27 coordinates of North 494,580.008, East 1,663,832.965. This statement does not serve as notice that CONSOL Mining Company LLC has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by CONSOL Mining Company LLC mining activity. This Voluntary Statement of No Objection does not waive CONSOL Mining Company LLC's Common Law Property Rights in the State of West Virginia.**

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOL Mining Company LLC</u></p> <p>By: <u>Ryan Arp</u></p> <p>Its: <u>Project Engineer</u></p> <p>Signature: </p> <p>Date: <u>12/1/2015</u></p>

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.

12/11/2015

**OIL AND GAS ROAD
STATEWIDE BONDING AGREEMENT**

THIS AGREEMENT, executed in duplicate, made and entered into this 19th day of January, 2012, by and between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, hereinafter called "DEPARTMENT," and CHEVRON APPALACHIA, LLC, a Pennsylvania Limited Liability company, hereinafter called "COMPANY."

WITNESSETH:

WHEREAS, Company has horizontal gas well drilling operations in certain areas of West Virginia; and

WHEREAS, the Department believes that the frequent and repetitive use of certain sections of highways in the State by Company, its contractors, agents, independent contractors or suppliers of drilling materials or drilling equipment, and employees contributes to increased wear and tear to public roads in the state road system in the State, including local roads ("State Owned Roads"); and,

WHEREAS, the Department and Company have entered into this Agreement to satisfy the requirements of the Department's policy entitled "Oil & Gas Road Policy" dated February 1, 2011, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways, and any subsequent related policies, hereinafter called "Policy", a copy of which is made a part of this Bonding Agreement and is identified as Attachment 1.

NOW, THEREFORE, for and in consideration of the mutual agreements hereinafter set forth, the parties agree as follows:

I. For purposes of this Bonding Agreement, "Project Transportation Usage" of the Company shall be understood to mean use of one or more State Owned Roads for the delivery and removal of drilling materials and drilling equipment at the site or location of one or more of Company's horizontal gas well pad locations. To the extent reasonably practical, prior to commencing use of a State Owned Road for Project Transportation Usage after January 1, 2011, the Company shall submit to the Department a section or sections of current official WVDOH County Highway maps identifying the exact location of the proposed project and the State Owned Roads that the Company will utilize for the Project Transportation Usage.

II. Company and Department shall within 14 days of the Company's submittal, agree to a list of these sections of State Owned Roads, hereinafter called "Project Roads List", to be utilized for each of Company's projects, identified by route number and milepost; at a time to be mutually agreed to by the parties prior to initial commencement of Project Transportation Usage of a particular State Owned Road on a Project Roads List, the Company and Department will jointly review the condition of the roads and bridges on the Project Roads List. The Department will document the road type and surface condition and general right-of-way width of each section of road on the Project Road List. Either party may supplement this documentation with photographs, video or other evidence of the present condition of the road surface, shoulders, ditches, culverts, bridges or other structures or appurtenances of roads on the Project Road List, as well as approaches to the roads, utility facilities located within or along the right-of-way, or any other condition, including third-party activities, that may affect the duties and responsibilities of the parties under this Agreement. A copy of any such documentation must be made and provided to the other party within ten business days after the joint review of the roads on the Project Roads List.

III. Department shall issue a Project Agreement or Project Permit, as appropriate, to Company to use State Owned Roads and may include any minor or major improvements required of Company prior to, during or after Project with the assignment of responsibilities of

both parties prior to, during and after the operator has completed well fracturing..

IV. In the Project Agreement/Project Permit, the Department shall not require the use of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List.

V. For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all reasonable maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that were directly damaged by Company's Project Transportation Usage, as determined to be reasonably necessary and appropriate by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.

VI. Company shall be responsible for the cost of all maintenance and repairs reasonably necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage. Company shall also not be required to pay for maintenance or repairs to any areas of these roadways, bridges or appurtenances on the Project Roads List that are not actually utilized for the Project Transportation Usage or for damage not caused by Project Transportation Usage.

VII. Company shall notify the Department in writing of Company's final completion of Project Transportation Usage for particular roadways, bridges and appurtenances on the Project Roads List. Within fourteen days after its receipt of written notification of the completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition reasonably deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department.

VIII. In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "Master Bond", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department, not to be unreasonably withheld. The amount and form of the bond shall be in accordance with the Policy as set forth above. However, the amount of the Master Bond does not limit the amount of claims that may be made by the Department against the Company under this Bonding Agreement. The Company shall provide the Master Bond to the Department within one (1) month after the execution of this Bonding Agreement. The Master Bond shall secure the good faith performance of all payment obligations of Company under the terms of this Bonding Agreement respecting the roads, bridges and appurtenances on the Project Roads List for each Project Transportation Usage undertaken by the Company, and shall remain in effect until termination of this Agreement. Company shall not be obligated to provide any other bonds, sureties, or other guarantees of performance to the Department for Company's use of State Owned Roads, except as required in this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Bonding Agreement to be executed by their duly authorized officers effective as of the date first above written.

WEST VIRGINIA DEPARTMENT OF
TRANSPORTATION,
DIVISION OF HIGHWAYS

Doren Baria
Witness "Executive Secretary"

By: Mark M. Muzly
State Highway Engineer

CHEVRON APPALACHIA, LLC

Michael A. Frazer
Witness Michael A. Frazer
Supply Chain Manager

By: John F. Hammond
John F. Hammond
Title: Assistant Secretary

(To be executed in duplicate)

APPROVED AS TO FORM THIS
11th DAY OF Jan 2012
John F. Hammond
ATTORNEY LEGAL DIVISION
WEST VIRGINIA DEPARTMENT
OF HIGHWAYS
~~WEST VIRGINIA DEPARTMENT
ATTORNEY LEGAL DIVISION
OF HIGHWAYS~~
DAY OF 20
APPROVED AS TO FORM THIS

Bond

KNOW ALL MEN BY THESE PRESENTS:

BOND NO. 070010540

That Chevron Appalachia, LLC
Address 800 Mountain View Drive, Smithfield, PA 15478 Phone No. _____
as principal, and Liberty Mutual Insurance Company, a corporation, organized
and existing under the laws of the State of MA, with principal office at
175 Berkeley Street Boston, MA 02116, and duly licensed
and authorized to do business in the State of West Virginia, as surety, are held and firmly bound unto the State
of West Virginia in the just and full sum of One Million and 00/100
Dollars (\$ 1,000,000.00), for the payment whereof well and truly to be made, we bind ourselves, our heirs,
executors, administrators, successors and assigns, jointly and severally by these presents.

WITNESS the signatures and seals of said principal and surety, both thereunto duly authorized this 12th day
of December, 2011.

The condition of the above obligation is such, that whereas, the above bound principal has filed with West
Virginia Division of Highways its written application for a permit to install _____
(his, its, etc.)

On all covered roads in the State for drilling activities

along bridges, roads and highways in the State of West Virginia, in manner and form prescribed by The West
Virginia Division of Highways, which may result in damage to said bridges, roads, highways, shoulders, and
ditches thereof.

Now, if the said Chevron Appalachia, LLC
principal, shall properly repair any and all damages that may result to said bridges, roads, highways, shoulders, and
ditches, upon which it may perform work, to as good condition as when same was entered upon, as determined by
the District Engineer of The West Virginia Division of Highways having jurisdiction over the work permitted, or
pay damages therefore in an amount sufficient to properly restore such bridges, roads, highways, shoulders, and
ditches to such original condition; and shall reimburse The West Virginia Division of Highways for all inspection
costs incurred by it in connection with said work and repairs of such damages and faithfully comply with all terms,
provisions and conditions of said permit and save harmless West Virginia Division of Highways and the State of
West Virginia from all losses resulting from the conduct of said work or repairs; then this obligation to be void,
otherwise to remain in full force and effect.

By execution of this bond the Principal and the Surety affirm that the text above is a verbatim reproduction of
The West Virginia Division of Highways Bond Form SM-6, Revised 5-19-05. Attached notarized signatures and
Power-of-Attorney are a part of this contract.

(SEAL)

Chevron Appalachia, LLC (SEAL)

By Uriel Osquera Corporation
Its Uriel Osquera, Vice president and Treasurer

(SEAL)

Liberty Mutual Insurance Company
By Marina Tapia A Corporation
Its Attorney-in-Fact

12/11/2015

STATE OF _____,

COUNTY OF _____, TO-WIT:

I, _____, a Notary Public in and for the County and State
aforesaid, do hereby certify that _____,
whose name is signed to the foregoing writing, bearing date the _____ day of _____,
has this day acknowledged the same before me in my said County and State.

Given under my hand this _____ day of _____,
My commission expires _____.

Notary Public

STATE OF _____,

COUNTY OF _____, TO-WIT:

I, _____, a Notary Public in and for the County and State
aforesaid, do hereby certify that _____,
who signed the foregoing writing bearing date the _____ day of _____, 20_____, for

_____,
a corporation, has this day in my said County, before me, acknowledged the said writing to be the act and deed of
said corporation.

Given under my hand this _____ day of _____, 20_____.
My commission expires _____.

Notary Public

SEE ATTACHED CALIFORNIA NOTARY ACKNOWLEDGEMENT FOR SURETY

STATE OF _____,

COUNTY OF _____, TO-WIT:

I, _____, a Notary Public in and for the County and State
aforesaid, do hereby certify that _____,
who signed the foregoing writing bearing date the _____ day of _____, 20_____, for

_____,
a corporation, has this day in my said County, before me, acknowledged the said writing to be the act and deed of
said corporation.

Given under my hand this _____ day of _____, 20_____.
My commission expires _____.

Notary Public

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Los Angeles

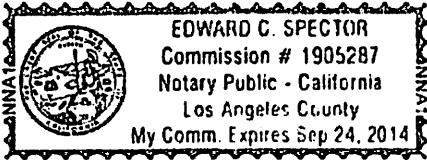
On DEC 12 2011 before me, Edward C. Spector, Notary Public, personally appeared Marina Tapia who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(seal)

Signature *Edward C. Spector*
Edward C. Spector, Notary Public



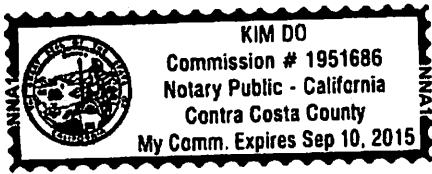
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of Contra Costa }

On December 13, 2011 before me, Kim Do, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Uriel Oseguera
Name(s) of Signer(s)



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature Kim Do
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Bond #070010540-Road Bond-State of West Virginia

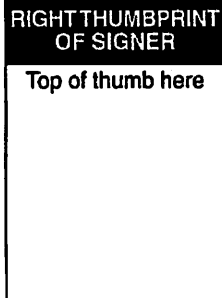
Document Date: December 12, 2011 Number of Pages: 2

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer(s)

Signer's Name: Uriel Oseguera

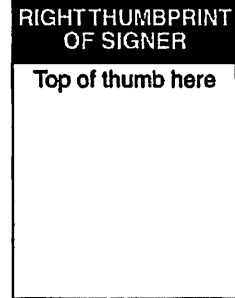
- Individual
- Corporate Officer — Title(s): Vice President and Treasurer
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:
Chevron U.S.A. Inc.

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

4950816

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint TRACY ASTON, MARINA TAPIA, EDWARD C. SPECTOR, KD CONRAD, SIMONE GERHARD, B. ALEMAN, ASHRAF ELMASRY, LISA K. CRAIL, PAUL RODRIGUEZ, DARAVY MADY, KRISTINE MENDEZ, ALL OF THE CITY OF LOS ANGELES, STATE OF CALIFORNIA

each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding SEVEN HUNDRED FIFTY MILLION AND 00/100 DOLLARS (\$ 750,000,000.00) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, David M. Carey, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this day of 26th day of October 2011.



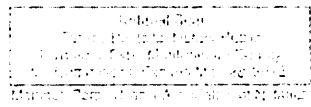
LIBERTY MUTUAL INSURANCE COMPANY

By David M. Carey, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 26th day of October, 2011, before me, a Notary Public, personally came David M. Carey, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



By Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this day of

DEC 12 2011



By Gregory W. Davenport, Assistant Secretary

12/11/2015

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

51-01874 RB

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 Distillate	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-nitropropionamide	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 perms	Hydrochloric Acid	7647-01-0	
Gel (CMHPG(lbs))	Ashland	Water Viscosifier	Carboxmethylhydroxypropoyl 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 is subject to 29 CFR 1910.1200(i) and Appendix D.

APPROVED
WVDEP OOG
[Signature] 3/30/2015

API# 5101800
 API# 5101801
 API# 5101802
 API# 5101803
 API# 5101804
 API# 5101805
 API# 5101824
 API# 5101825
 API# 5101826

TAYLOR C W

EROSION AND SEDIMENT

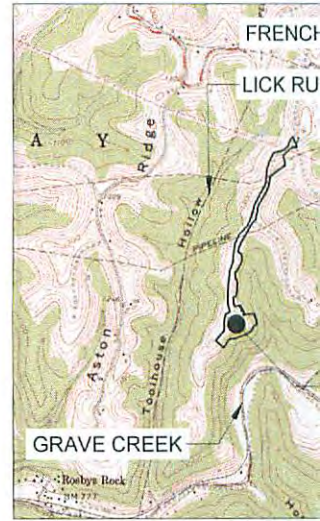
FORK RIDGE ROAD (CO. ROAD
 MARSHALL COUNTY

PREPARED FOR

CHEVRON APPAR

800 MOUNTAIN VI
 SMITHFIELD, PA

L. TAYLOR LIMITS OF DISTURBANCE AREA (AC)	
TOTAL SITE	
ACCESS ROAD	3.1 AC
WELL PAD	4.4 AC
TOTAL AFFECTED AREA	21.9 AC
TOTAL WOODED ACRES DISTURBED	10.5 AC
IMPACTS TO PROPERTY OWNER ONE	
ACCESS ROAD	2.9 AC
WELL PAD	4.4 AC
TOTAL AFFECTED AREA	20.9 AC
TOTAL WOODED ACRES DISTURBED	10.4 AC
IMPACTS TO PROPERTY OWNER TWO	
ACCESS ROAD	0.2 AC
WELL PAD	0.0 AC
TOTAL AFFECTED AREA	1.0 AC
TOTAL WOODED ACRES DISTURBED	0.1 AC



SITE LOCATION
 GLEN EASTON
 1" = 2000'



Know what's below.
 Call before you dig.

LEGEND	EXISTING
TC - TOP OF CURB	C CABLE TV
G - GUTTER	CONTOUR (MAJOR)
TW - TOP OF WALL	CONTOUR (MINOR)
BW - BOTTOM OF WALL	D DATA LINE
TS - TOP OF SLOPE	E ELECTRIC LINE
BS - BOTTOM OF SLOPE	ETC ELEC-TEL-COM
SAN - SANITARY	x FENCE LINE
ST - STORM	fm FORCE MAIN
MH - MANHOLE	G GAS LINE
TOP - TOP OF CASTING	LOT LINE
FL - FLOWLINE	OH OVERHEAD WIRES
WV - WATER VALVE	PROPERTY LINE
GV - GAS VALVE	RIGHT-OF-WAY
FH - FIRE HYDRANT	ROAD CENTERLINE
CO - CLEAN CUT	SEWER
STD - STANDARD	T TELEPHONE LINE
PM - PARKING METER	TREE LINE
MB - MAILBOX	W WATER LINE
DS - DOOR SILL	
	SHRUB
	CLEANOUT
	ENDWALL
	FIRE HYDRANT
	GAS VALVE
	INLET
	IRON PIN
	LIGHT
	MANHOLE
	MARKER
	METER
	POLE
	SIGN
	TESTHOLE
	TREE
	VENT
	WATER VALVE
	YARD DRAIN

12/11/2015

Path & Filename: G:\Projects\17000\17544 Atlas Energy\0379 L Taylor Wells.Dwg 02-Sheet-E&S Permitt Plans.dwg
 Plot Date: 2/24/2015 5:19 PM Cregg R. Judic, E.I.T. Save Date: 2/24/2015 5:16 PM

WELL SITE EROSION AND SEDIMENT CONTROL PLAN

(D 17), CLAY DISTRICT
MARSHALL COUNTY WV 26041

CHEVRON APPALACHIA, LLC

NEW DRIVE
MARSHALL COUNTY WV 26041



MAP
QUAD

DWG. No.	SHEET TITLE	INCLUDED
CS 000	COVER SHEET	<input checked="" type="checkbox"/>
ES 050	EXISTING CONDITIONS PLAN	<input checked="" type="checkbox"/>
ES 100	OVERALL EROSION AND SEDIMENT CONTROL PLAN	<input checked="" type="checkbox"/>
ES 101	EROSION AND SEDIMENT CONTROL PLAN	<input checked="" type="checkbox"/>
ES 102	EROSION AND SEDIMENT CONTROL PLAN	<input checked="" type="checkbox"/>
ES 103	EROSION AND SEDIMENT CONTROL PLAN	<input checked="" type="checkbox"/>
ES 104	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 105	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 106	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 107	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 108	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 109	EROSION AND SEDIMENT CONTROL DETAILS	<input checked="" type="checkbox"/>
ES 110	WELL PAD CROSS SECTIONS A-A' & B-B'	<input checked="" type="checkbox"/>
ES 111	SEDIMENT TRAP CROSS SECTIONS C-C' & D-D'	<input checked="" type="checkbox"/>
ES 112	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
ES 113	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
ES 114	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
ES 115	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
ES 116	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
ES 117	AGGREGATE ACCESS ROAD CROSS SECTIONS	<input checked="" type="checkbox"/>
ES 118	AGGREGATE ACCESS ROAD CROSS SECTIONS	<input checked="" type="checkbox"/>
ES 119	AGGREGATE ACCESS ROAD CROSS SECTIONS	<input checked="" type="checkbox"/>
GE 500	WELL PAD CROSS SECTIONS A-A' & B-B'	<input checked="" type="checkbox"/>
GE 501	SEDIMENT TRAP CROSS SECTIONS C-C' & D-D'	<input checked="" type="checkbox"/>
GE 502	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
GE 503	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
GE 504	AGGREGATE ACCESS ROAD PLAN AND PROFILE	<input checked="" type="checkbox"/>
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GE 509	AGGREGATE ACCESS ROAD CROSS SECTIONS	<input checked="" type="checkbox"/>
GE 510	AGGREGATE ACCESS ROAD CROSS SECTIONS	<input checked="" type="checkbox"/>
PC 600	WELL SITE RECLAMATION PLAN	<input checked="" type="checkbox"/>
PC 601	WELL SITE RECLAMATION PLAN WITH AERIAL	<input checked="" type="checkbox"/>

PROPOSED	
---	BLDG SETBACK LINE
---	CABLE TV
---	CONTOURS (MAJOR)
---	CONTOURS (MINOR)
---	DATA
---	DATA LINE
---	EASEMENT
---	ELECTRIC LINE
---	ELEC-TEL-COM
---	FENCE LINE
---	FORCE MAIN
---	GAS LINE
---	OVERHEAD WIRES
---	PROPERTY LINE
---	RIGHT-OF-WAY
---	ROAD CENTERLINE
---	SANITARY LINE
---	SANITARY LATERAL
---	SPOT ELEVATIONS
---	STORM SEWER
---	TELEPHONE LINE
---	TREE LINE
---	WATER LINE
---	WATER LINE LATERAL
○	SHRUB
⊕	CLEANOUT
—	ENDWALL
⊕	FIRE HYDRANT
⊕	GAS VALVE
⊕	INLET
⊕	LIGHT
⊕	STORM MANHOLE
⊕	SAN MANHOLE
⊕	MARKER
⊕	METER - E, G, W
⊕	PERC HOLE
⊕	POLE
⊕	SIGN
⊕	TESTHOLE
⊕	TREE
⊕	VENT
⊕	WATER VALVE
⊕	YARD DRAIN

START OF ACCESS ROAD TO WELL (PRIVATE DRIVE)
LATITUDE: 39°51'45.15" N LONGITUDE: 80°41'33.52" W

WELL PIN "1"
LATITUDE: 39° 51' 06.32" N LONGITUDE: 80° 41' 50.81" W

WELL PIN "9"
LATITUDE: 39° 51' 06.69" N LONGITUDE: 80° 41' 50.16"

CENTER OF WELL PAD
LATITUDE: 39° 51' 07.12" N LONGITUDE: 80° 41' 50.11" W

BASED ON NAD 83 PROJECTIONS

WATERSHED NAME: UPPER OHIO-WHEELING
RECEIVING STREAM (USGS BLUE LINE): UNT'S TO GRAVE CREEK
DISTANCE TO NEAREST USGS BLUE LINE STREAM = ±1,071 L.F.
NO ANTICIPATED WETLAND IMPACTS

GATEWAY
Consulting Engineers & Surveyors
400 Holiday Drive, Suite 300 Pittsburgh, PA 15220
Phone (412) 921-4030 - Fax (412) 921-9960
Blair, PA (724) 287-1055 • Washington, PA (724) 220-3392
http://www.gatewayengineers.com



REVISION RECORD	
No.	Date
01	-
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04	-
05	-
06	-
07	-
08	-

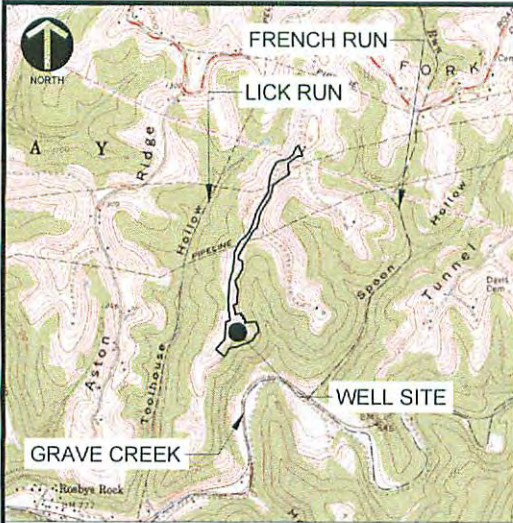
TAYLOR C WELL SITE
FORK RIDGE ROAD (CO. ROAD 17), CLAY DISTRICT
MARSHALL COUNTY WV 26041

PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

COVER SHEET

Project Number C-17544-0379
Drawing Scale N.T.S.
Date Issued NOV. 2014
Index Number 402828
Drawn By TJS
Checked By PJS
Project Manager JCW

12/10/2015



**SITE LOCATION MAP
GLEN EASTON QUAD
1" = 2000'**

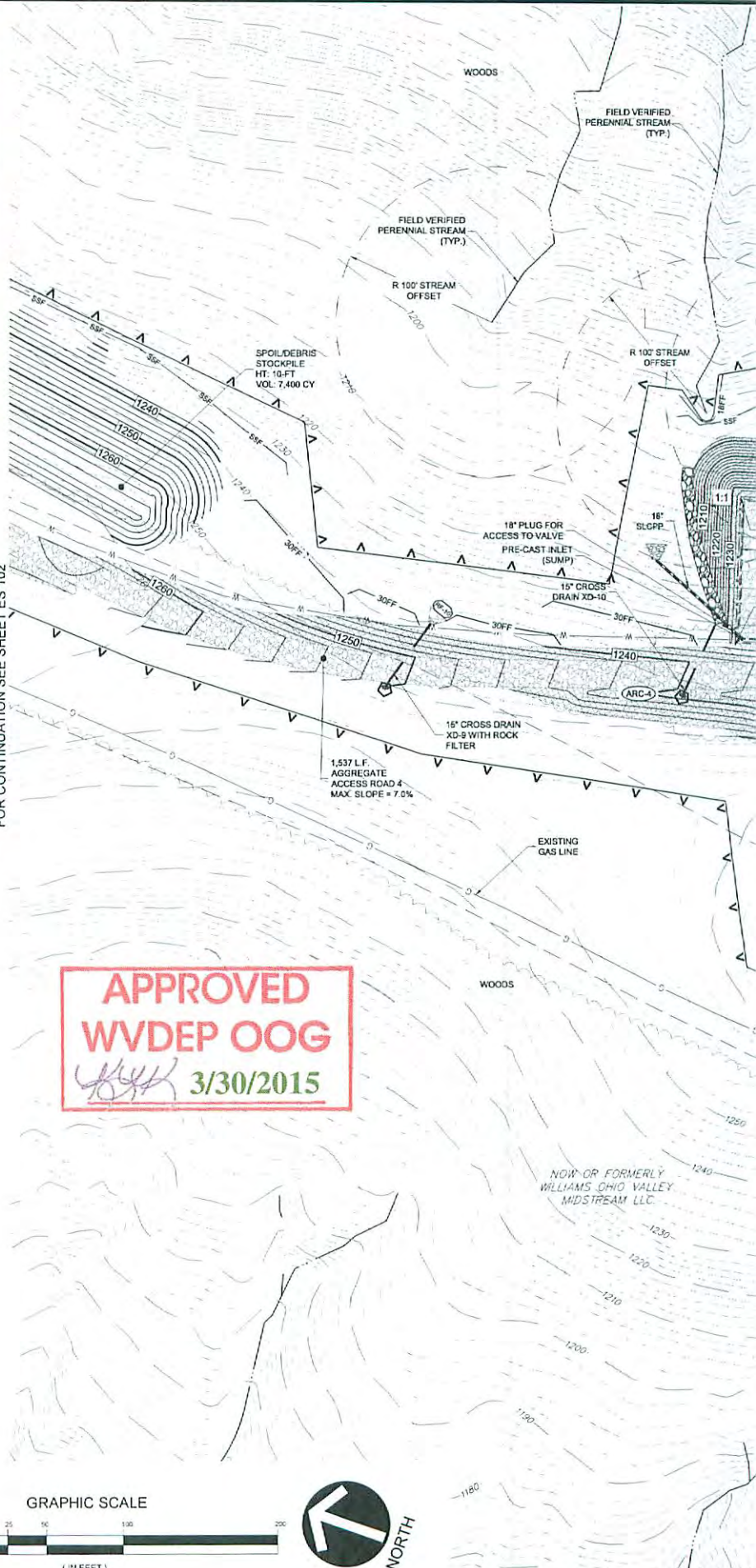
NOTES:

1. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN PHYSICALLY LOCATED BY THE SURVEYOR, HOWEVER, THE INFORMATION WAS OBTAINED FROM EXISTING PLANS AND/OR SURFACE FACILITIES. THE GATEWAY ENGINEERS, INC. MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE GATEWAY ENGINEERS, INC. DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.
2. IN THE PREPARATION OF THIS PLAN, THE CUTS AND/OR FILLS WERE SET WITHOUT KNOWLEDGE OF THE CAPABILITIES OF THE SOILS LOCATED ON THE SITE. THE GATEWAY ENGINEERS, INC. MAKES NO REPRESENTATION BY THIS PLAN OF THE STABILITY OF THE CUTS AND/OR FILLS SHOWN. ADJUSTMENTS TO PROPOSED CUT AND FILL SLOPES MAY BE REQUIRED BASED ON SUBSURFACE CONDITIONS AND/OR MATERIAL ENCOUNTERED.
3. GRADE ALL CHANNELS TO PROVIDE POSITIVE FLOW TO OUTFALL.
4. SURROUNDING TOPOGRAPHICAL DATA PROVIDED FROM WV MAP - TOPOGRAPHY SHOWN FOR REPRESENTATION PURPOSES ONLY AND HAS NOT BEEN FIELD VERIFIED.
5. THERE SHALL BE NO DISCHARGE ALLOWED FROM THE WELL PAD DURING DRILLING AND COMPLETION ACTIVITIES.
6. NO SCHOOLS OR PUBLIC BUILDINGS WITHIN 1/2 MILE OF LIMITS OF DISTURBANCE.

LIMITS OF DISTURBANCE = 22.0 ACRES

LEGEND	
	STREAM LINE
	GAS LINE
	OVERHEAD WIRE
	OVERHEAD TELEPHONE WIRE
	CONTOURS (MAJOR)
	CONTOURS (MINOR)
	GAS LINE RIGHT-OF-WAY
	PROPERTY LINE
	TREE LINE
	GUIDE RAIL
	EXISTING POLE
	GAS METER
	LIGHT POLE
	TANKS
	CONTOURS (MAJOR)
	CONTOURS (MINOR)
	LIMITS OF DISTURBANCE
	SUPER SILT FENCE
	CULVERT/CROSS DRAIN
	CONTAINMENT BERM
	SILT FENCE (18" HIGH)
	SILT FENCE REINFORCED (30" HIGH)
	PROPOSED WELL HEAD
	INLET WITH INLET PROTECTION
	ROCK FILTER
	RIP RAP APRON
	TEMPORARY INTERCEPTOR CHANNEL
	CUT SLOPE DITCH
	ACCESS ROAD CUT DITCH
	STONE CONSTRUCTION ENTRANCE
	HYDROSEED

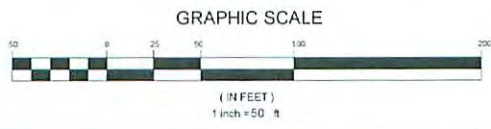
FOR CONTINUATION SEE SHEET ES 102



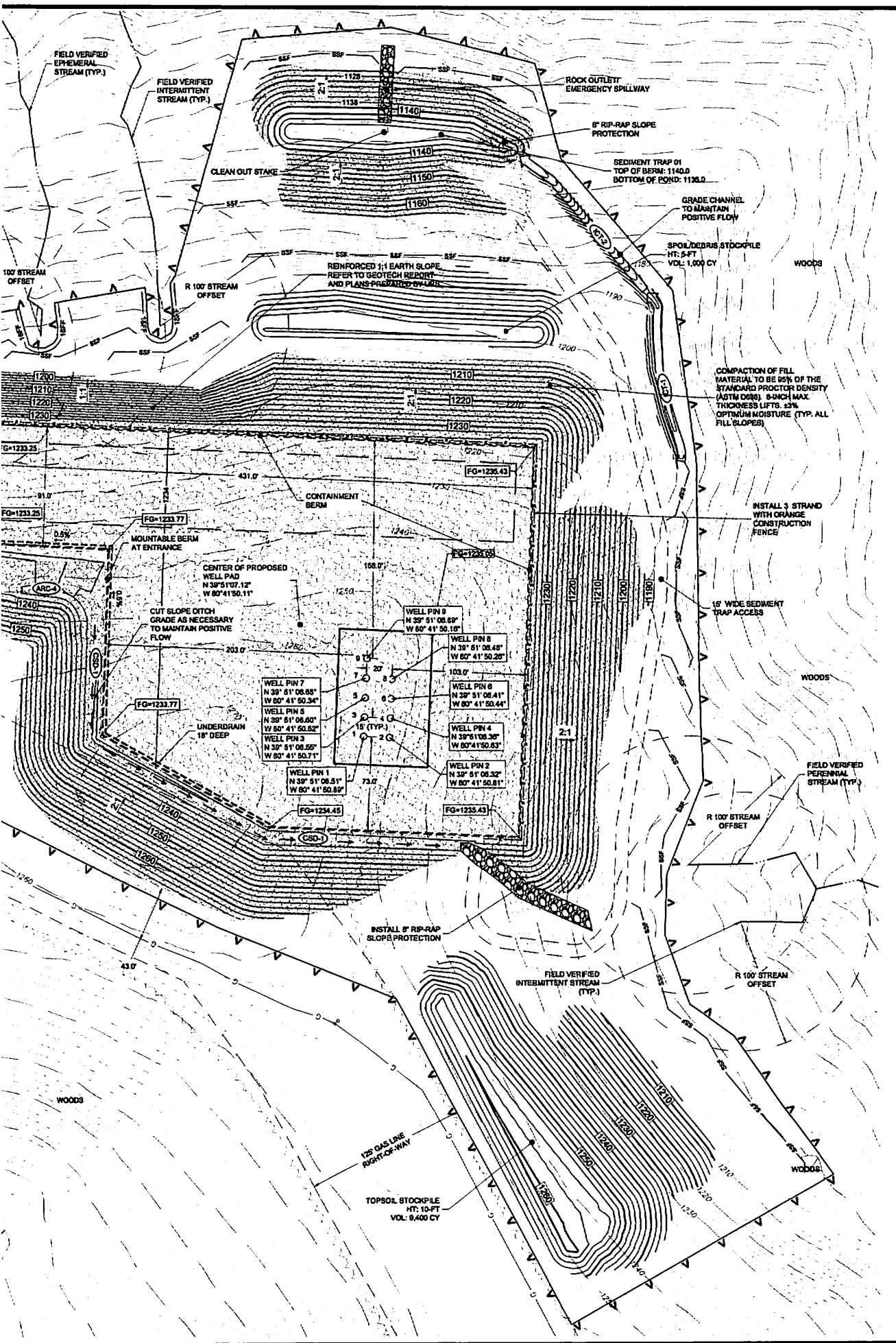
APPROVED
WVDEP OOG
3/30/2015

NOW OR FORMERLY
WILLIAMS OHIO VALLEY
MIDSTREAM LLC

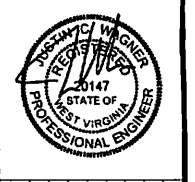
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12/11/2015



GATEWAY
 On Call On Time On Target
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 • Washington, PA (724) 228-3062
 162/111111 gatewayeng.com



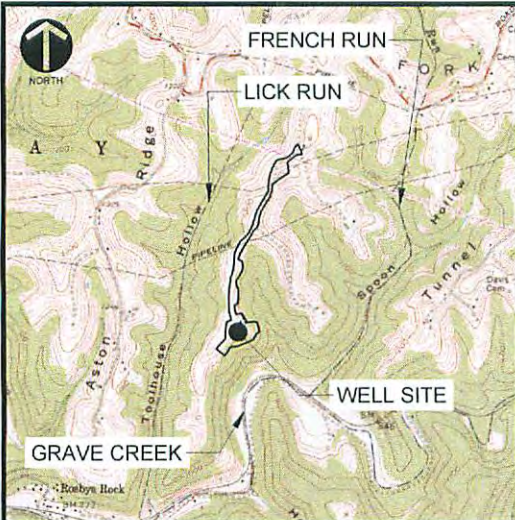
REVISION RECORD

No.	Date
01	
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TAYLOR C WELL SITE
 FORK RIDGE ROAD (CO. ROAD 17), CLAY DISTRICT
 MARSHALL COUNTY WV, 26041
 PREPARED FOR:
CHEVRON APPALACHIA, LLC
 800 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15478

EROSION AND SEDIMENT CONTROL PLAN
 Project Number: C-17544-0379
 Drawing Scale: 1"=50'
 Date Issued: NOV. 2014
 Index Number: 402828
 Drawn By: IJS
 Checked By: FJG
 Project Manager: JCW

ES1102015



**SITE LOCATION MAP
GLEN EASTON QUAD
1" = 2000'**

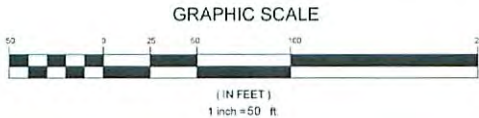
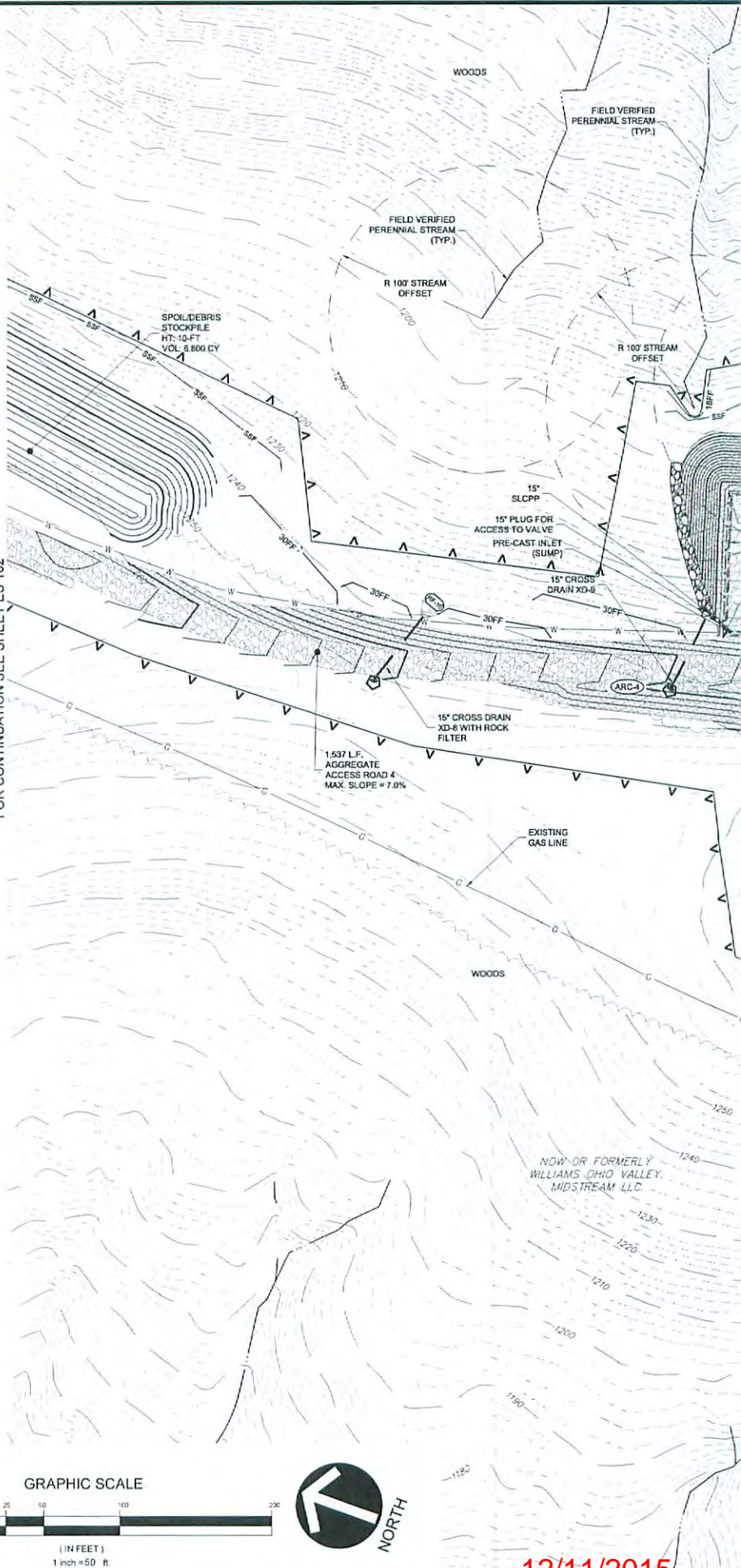
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3. GRADE ALL CHANNELS TO PROVIDE POSITIVE FLOW TO OUTFALL.
4. SURROUNDING TOPOGRAPHICAL DATA PROVIDED FROM WV MAP - TOPOGRAPHY SHOWN FOR REPRESENTATION PURPOSES ONLY AND HAS NOT BEEN FIELD VERIFIED.
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LIMITS OF DISTURBANCE = 22.0 ACRES

LEGEND	
	STREAM LINE
	GAS LINE
	OVERHEAD WIRE
	OVERHEAD TELEPHONE WIRE
	CONTOURS (MAJOR)
	CONTOURS (MINOR)
	GAS LINE RIGHT-OF-WAY
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	EXISTING POLE
	GAS METER
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	LIMITS OF DISTURBANCE
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	STONE CONSTRUCTION ENTRANCE
	HYDROSEED

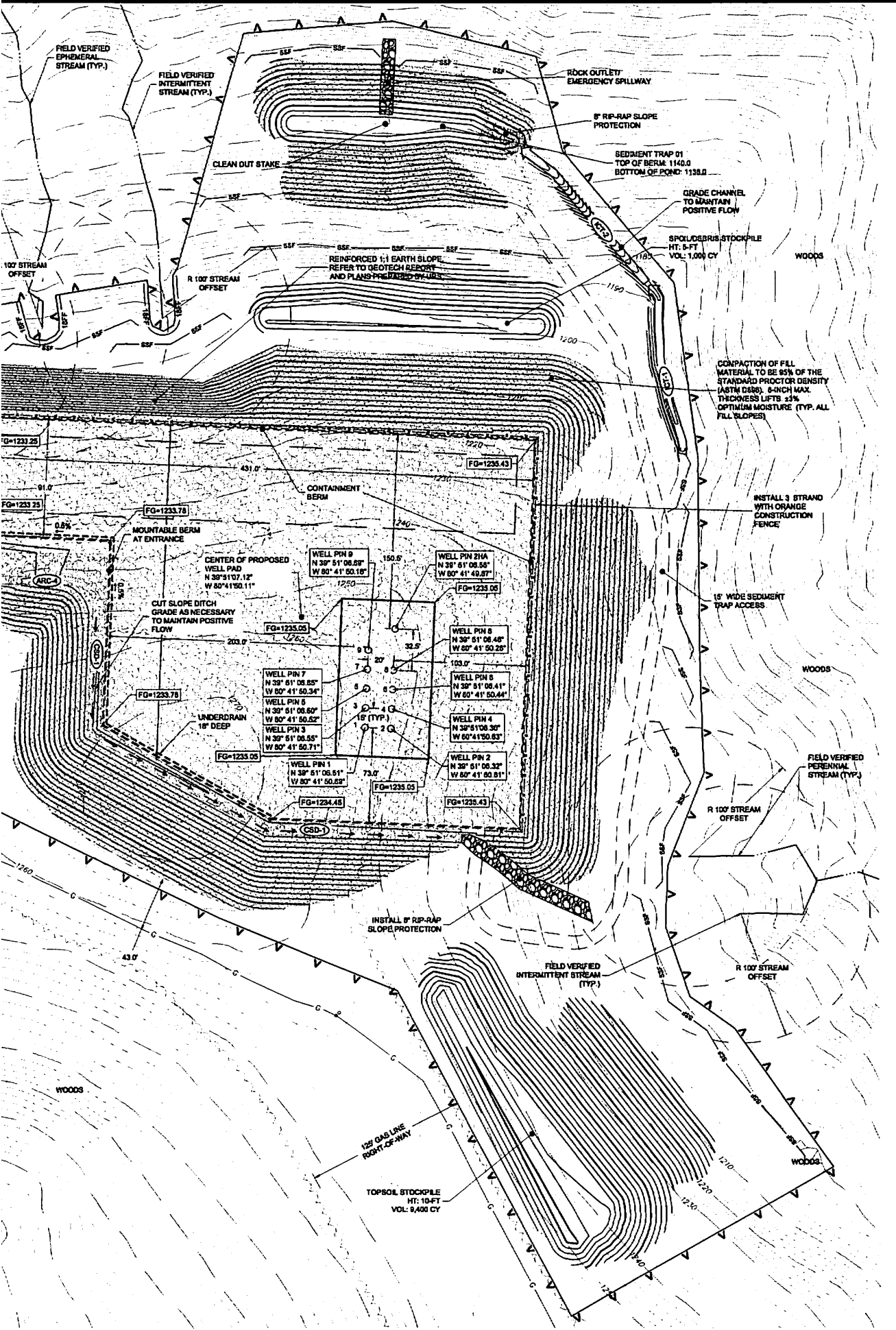
FOR CONTINUATION SEE SHEET ES 102



12/11/2015

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SL-01874RB



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 Consulting Engineers & Surveyors
 400 Holiday Drive, Suite 300 Pittsburgh, PA 15220
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REVISION RECORD

No	Date	Description
01	12/02/2015	ADDED WELL HEAD 2HA
02		
03		
04		
05		
06		
07		
08		

TAYLOR C WELL SITE
 FORK RIDGE ROAD (CO. ROAD 17), CLAY DISTRICT
 MARSHALL COUNTY WV, 26041
 PREPARED FOR:
CHEVRON APPALACHIA, LLC
 800 MOUNTAIN VIEW DRIVE
 SMITHFIELD, PA 15478

EROSION AND SEDIMENT CONTROL PLAN
 Project Number: C-17544-0378
 Drawing Scale: 1"=50'
 Date Issued: NOV 2014
 Index Number: 402828
 Drawn By: TJS
 Checked By: PJG
 Project Manager: JCW

ES 102015