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west virginia department of environmental protection

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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

## PERMIT MODIFICATION APPROVAL

April 10, 2014

CHEVRON APPALACHIA, LLC  
POST OFFICE BOX 611  
MOON TOWNSH, PA 15108

Re: Permit Modification Approval for API Number 5101710 , Well #: FRANCIS 2H

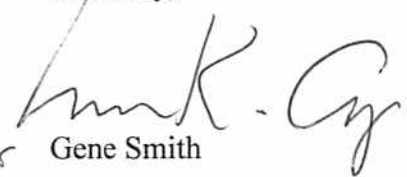
Moved top hole

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

  
for Gene Smith  
Regulatory/Compliance Manager  
Office of Oil and Gas



**Kathleen McIntyre**  
Permit Coordinator

**Appalachian/Michigan  
Strategic Business Unit**  
Chevron North America  
Exploration and Production  
A Division of Chevron U.S.A. Inc.  
800 Mountain View Drive  
Smithfield, PA 15478  
Tel 724-564-5511  
Fax 724-564-3894  
katmc@chevron.com

April 9, 2014

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

RE: Modification Request Francis 2H, 3H, 4H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, & 13H

Dear Ms. Cooper,

Chevron Appalachia, LLC requests a permit modification of the following wells:

Francis 2H	47-051-01710
Francis 3H	47-051-01711
Francis 4H	47-051-01712
Francis 6H	47-051-01713
Francis 7H	47-051-01714
Francis 8H	47-051-01715
Francis 9H	47-051-01716
Francis 10H	47-051-01717
Francis 11H	47-051-01718
Francis 12H	47-051-01719
Francis 13H	47-051-01720

Enclosed are modified plats and signed Voluntary Statement of No Objections for all requested wells. After the original applications were submitted Murray took an interest in the Pittsburgh coal seam. We are also including their Voluntary Statement of No Objection in this request.

Should you have any questions or problems, please contact me at (724) 564-5511 or katmc@chevron.com.

Sincerely,

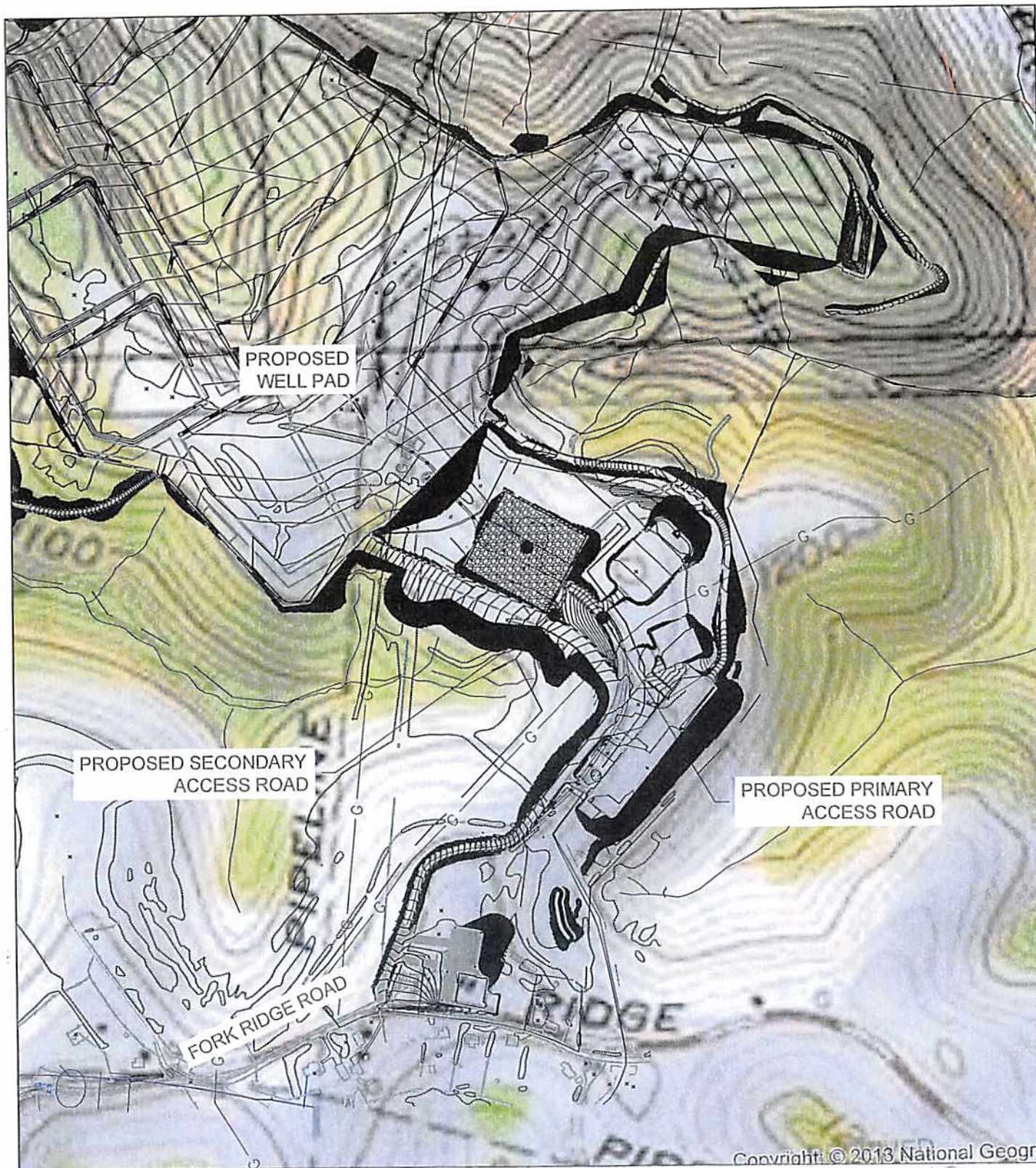
Kathleen McIntyre  
Permitting Coordinator

**Received**

**APR 10 2014**

Office of Oil and Gas  
WV Dept. of Environmental Protection

04/11/2014



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Office of Oil and Gas

*MSK*  
*10/2/2013*

*JM*  
*10/2/13*

SITE USGS LOCATION MAP

SCALE: 1" = 500'

OCT 28 2013



USGS SITE LOCATION MAP  
Project Number: 27244-0178  
Drawing Date: 10/20/13  
Date Issued: 10/21/13  
Index Number:  
Drawn By: JMS  
Checked By: JMS  
Project Manager: JMS

FRANCIS WELL SITE  
FORK RIDGE ROAD, MARSHALL COUNTY  
MOUNDSVILLE, WEST VIRGINIA  
PREPARED FOR:  
**CHEVRON APPALACHIA, LLC**  
800 MOUNTAIN VIEW DRIVE  
SMITHFIELD, PA 15478

Date	By	REVISION RECORD
--	01	
--	02	
--	03	
--	04	
--	05	
--	06	
--	07	
--	08	

WV Department of Environment & Natural Resources

Consulting Engineers & Surveyors  
400 Holiday Drive, Suite 300 Pittsburgh, PA 15220  
Phone (412) 921-4030 - Fax (412) 921-9960  
Butler, PA (724) 287-1058  
Washington, PA (724) 229-0262  
http://www.gatewayeng.com

**04/11/2014**

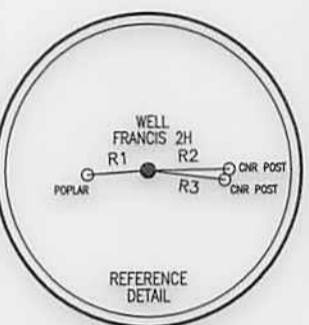
Well is located on topo map 603 feet south of Latitude: 39° 52' 30"

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83 N:4413745.212 E:526318.853	UTM 17-NAD83 N:4414260.44 E:526683.50	UTM 17-NAD83 N:4415207.17 E:525924.13
NAD83, WV NORTH N:502437.493 E:1633888.877	NAD83, WV NORTH N:504108.21 E:1635113.71	NAD83, WV NORTH N:507256.56 E:1632673.78



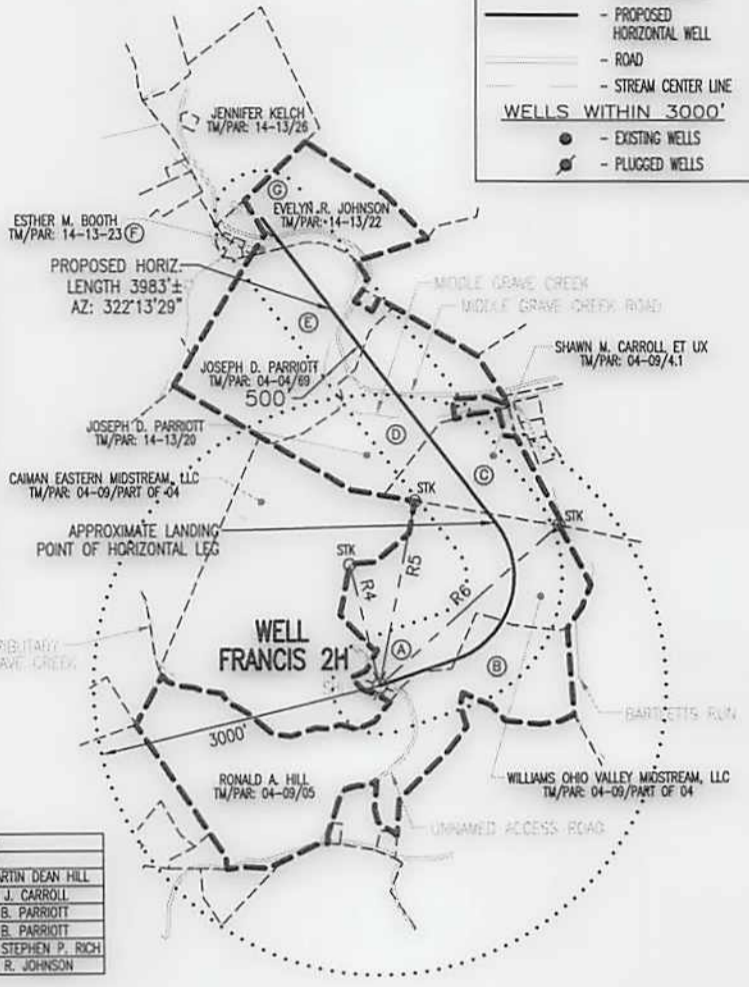
LEGEND	
	- TOPO MAP POINT
	- WELL
	- ALL ARE. POINTS UNLESS OTHERWISE NOTED.
	- WATER SOURCE
	- MINERAL TRACT BOUNDARY
	- PARCEL LINES
	- WELL REFERENCE
	- PROPOSED HORIZONTAL WELL
	- ROAD
	- STREAM CENTER LINE
<b>WELLS WITHIN 3000'</b>	
	- EXISTING WELLS
	- PLUGGED WELLS

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



LINE	BEARING	DISTANCE
R1	S 86°01'01" W	127.40'
R2	N 89°28'27" E	170.50'
R3	S 82°47'17" E	162.40'
R4	N 13°52'23" W	1279.10'
R5	N 11°08'46" E	1939.05'
R6	N 48°51'04" E	2505.39'

PARCEL	LESSOR
A	BARBARA P. FRANCIS
B	RONALD A. HILL & MARTIN DEAN HILL
C	SHAWN M. & CHARITY J. CARROLL
D	JOSEPH D. & NELLIE B. PARRIOTT
E	JOSEPH D. & NELLIE B. PARRIOTT
F	ESTHER M. BOOTH & STEPHEN P. RICH
G	THOMAS L. & EVELYN R. JOHNSON



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

Well is located on topo map 7.177 feet west of Longitude: 80° 40' 00"

FILE #: FRANCIS 2H  
DRAWING #: FRANCIS 2H  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/2500  
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

Signed: *[Signature]*  
R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



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

DATE: APRIL 9, 2014  
OPERATOR'S WELL #: FRANCIS 2H  
API WELL #: 47 51 MOD 07/10 H6A  
STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK ELEVATION: 1259.00'  
COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'  
SURFACE OWNER: WILLIAMS OHIO VALLEY MIDSTREAM, LLC ACREAGE: 70.41±  
OIL & GAS ROYALTY OWNER: BARBARA P. FRANCIS ACREAGE: 399.023±

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: 6,512'± TMD: 11,750'±  
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

04/11/2014