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

PERMIT MODIFICATION APPROVAL

April 10, 2014

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

Re: Permit Modification Approval for API Number 5101719 , Well #: FRANCIS 12H
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

51-01719 MOD

Chevron

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 57th 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,

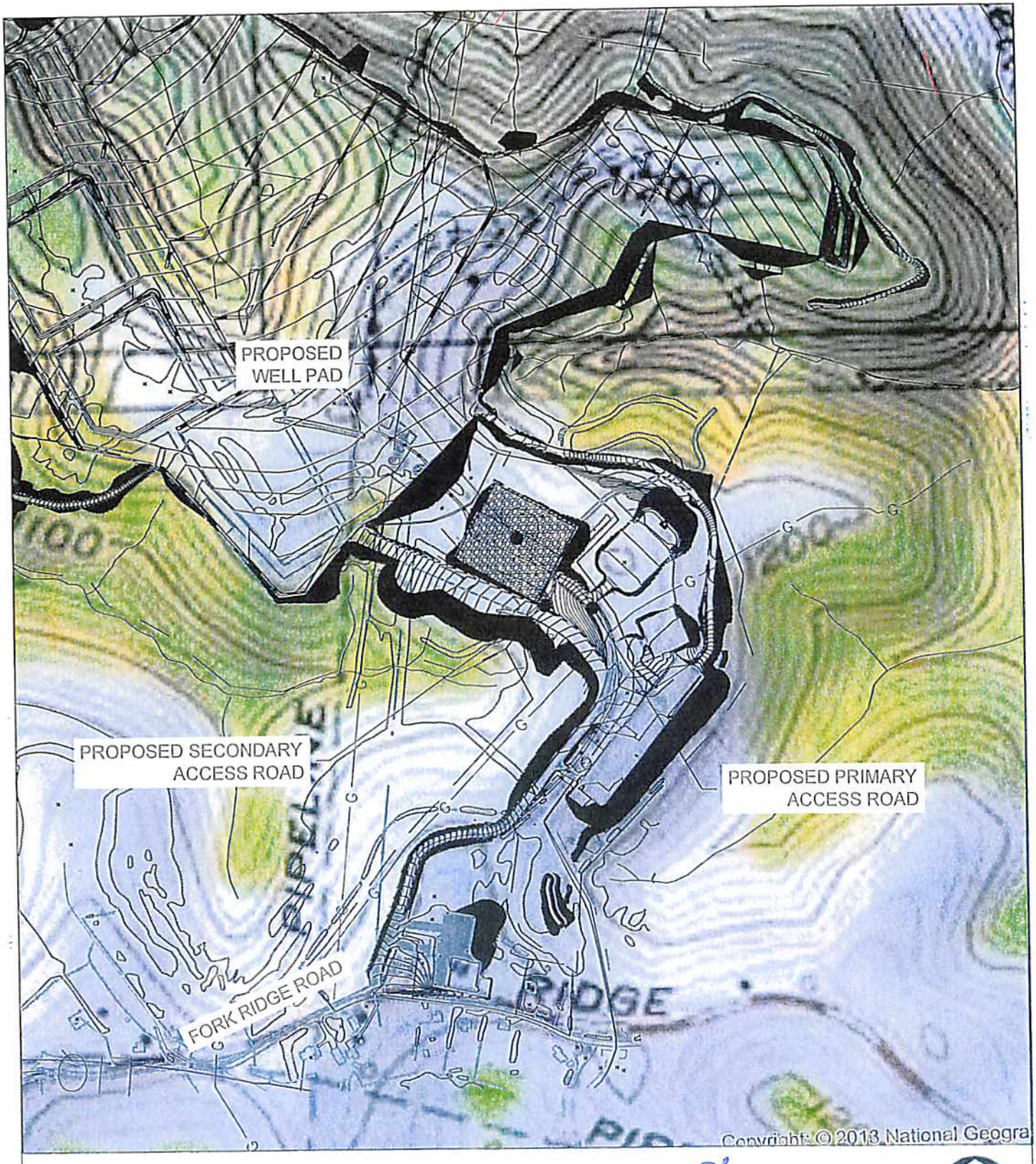
Kathleen McIntyre
Permitting Coordinator

Received

APR 10 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

51-01719



SITE USGS LOCATION MAP

SCALE: 1" = 500'

NORTH

RECEIVED
Office of Oil and Gas

USGS SITE LOCATION MAP

EX-1

FRANCIS WELL SITE
FORK RIDGE ROAD, MARSHALL COUNTY
MOUNDSVILLE, WEST VIRGINIA

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

Date	No	REVISION RECORD
-	01	-
-	02	-
-	03	-
-	04	-
-	05	-
-	06	-
-	07	-
-	08	-

GATEWAY
On Gulf, On Time, On Target

Consulting Engineers & Surveyors
400 Holiday Drive, Suite 300 Pittsburgh, PA 15220
Phone (412) 921-4030 - Fax (412) 921-3060

Path & Filename: G:\Projects\...\Plot Date: 9/28/2013 4:40 PM Joseph M. Galbraith
Save Date: 9/28/2013 4:30 PM

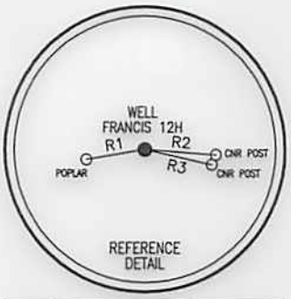
Well is located on topo map 669 feet south of Latitude: 39°52'30"

SURFACE HOLE LOCATION (SHL)	APPROX. LANDING POINT	BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83	UTM 17-NAD83	UTM 17-NAD83
N:4413725.022	N:4413526.62	N:4414658.31
E:526308.132	E:525748.75	E:524841.02
NAD83, WV NORTH	NAD83, WV NORTH	NAD83, WV NORTH
N:502371.830	N:501751.46	N:505514.88
E:1633852.586	E:1632006.08	E:1629089.47

NOTES:

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

WELL PAD ORIENTATION DETAIL



LINE	BEARING	DISTANCE
R1	S 80°42'14" W	136.11'
R2	S 85°56'42" E	163.66'
R3	S 77°42'32" E	157.49'
R4	N 26°03'14" W	2853.95'
R5	N 08°22'28" W	2024.59'
R6	N 48°58'15" E	2491.35'

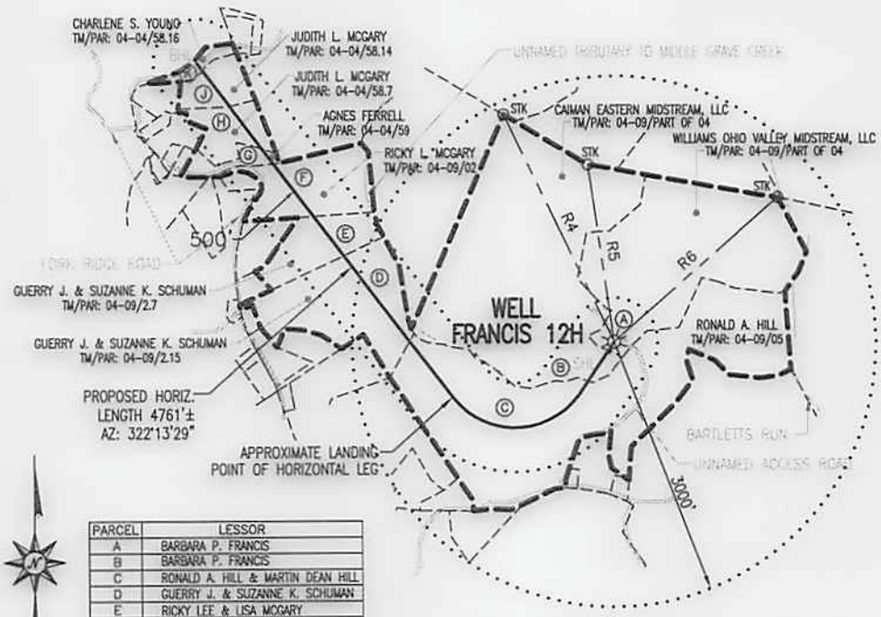
Well is located on topo map 7,213 feet west of Longitude: 80°40'00"

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

WELLS WITHIN 3000'

- EXISTING WELLS
- PLUGGED WELLS



PARCEL	LESSOR
A	BARBARA P. FRANCIS
B	BARBARA P. FRANCIS
C	RONALD A. HILL & MARTIN DEAN HILL
D	GUERRY J. & SUZANNE K. SCHUMAN
E	RICKY LEE & LISA MCGARY
F	RICKY LEE & LISA MCGARY
G	ROBERT V. & AGNES FERRELL
H	ROGER L. & JUDITH L. MCGRAY
J	ROGER L. & JUDITH L. MCGRAY
K	CHARLES V. WHITELATCH

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

FILE #: FRANCIS 12H

DRAWING #: FRANCIS 12H

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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

Signed: [signature]

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

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

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: APRIL 9, 2014

OPERATOR'S WELL #: FRANCIS 12H MOD

API WELL #: 47 (STATE) 51 (COUNTY) 01719HGA (PERMIT)

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

WATERSHED: MIDDLE GRAVE CREEK ELEVATION: 1260.12'

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: 387.019±

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: 12,561'±

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