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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](http://www.dep.wv.gov)

## PERMIT MODIFICATION APPROVAL

August 07, 2013

CHESAPEAKE APPALACHIA, L.L.C.  
POST OFFICE BOX 6070  
CHARLESTON, WV 25362

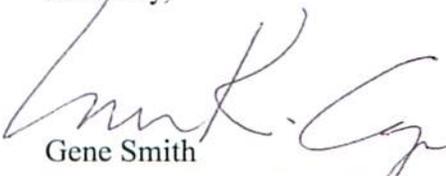
Re: Permit Modification Approval for API Number 6900111 , Well #: ROY FERRELL OHI 1H  
**moved top hole location**

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,

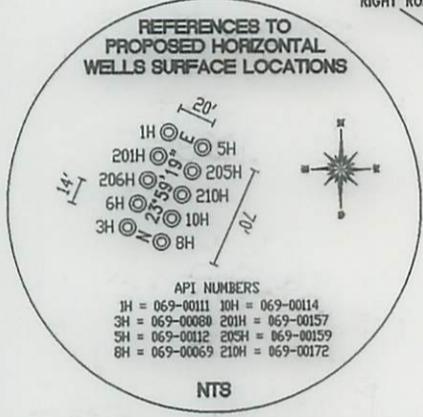
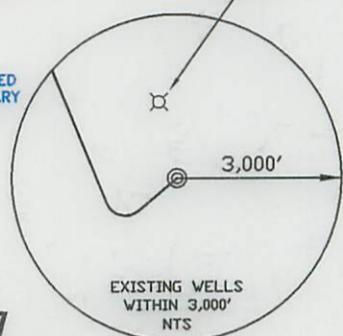
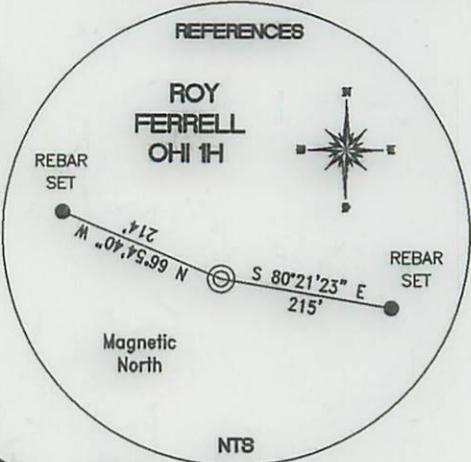
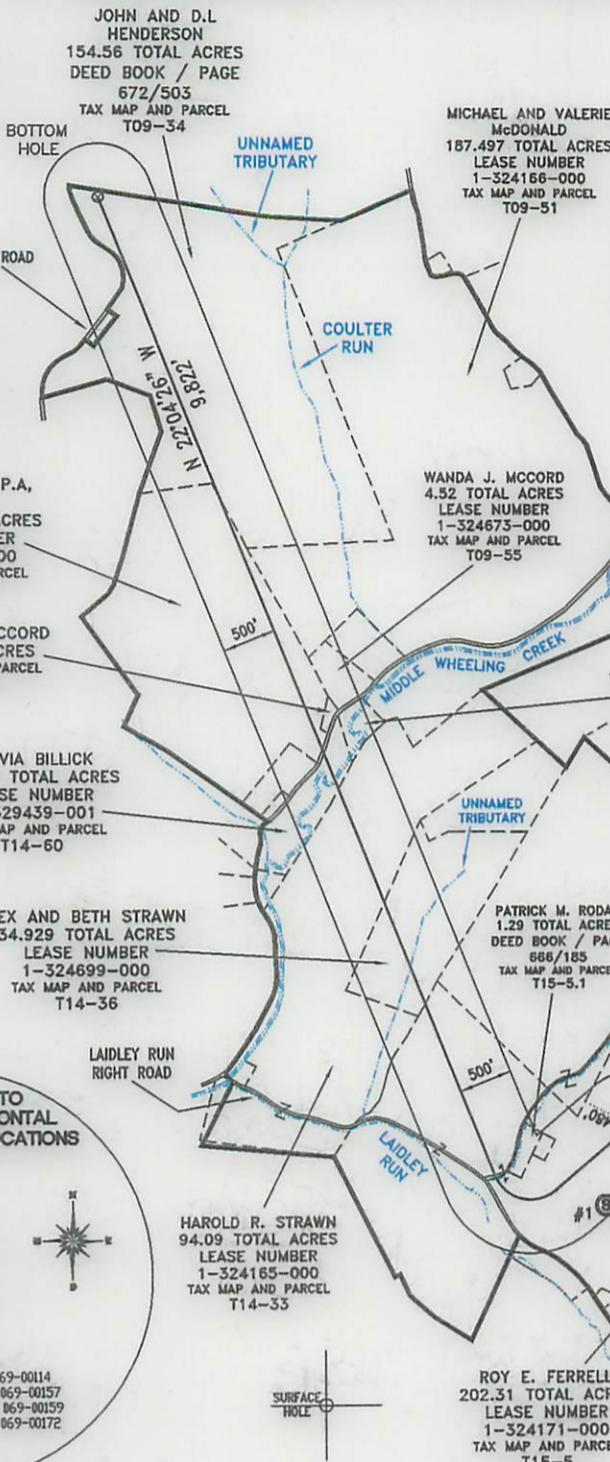
*for*   
Gene Smith  
Regulatory/Compliance Manager  
Office of Oil and Gas

Promoting a healthy environment.

SPRING #1  
 S 17°30'05" W 774'

TH (UTM-NAD 83)  
 N) 4432670.2  
 E) 540011.3

BOTTOM HOLE (UTM-NAD 83)  
 N) 4435279.0  
 E) 538454.3

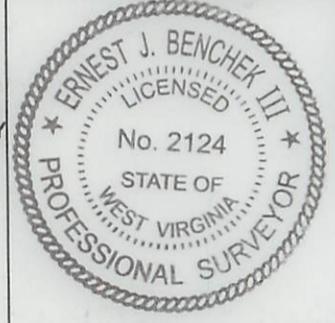


**REFERENCE NOTES**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Ohio County, West Virginia MARCH 2011  
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS  
 Drafted by E.A.M.

FILE #: CHE 034  
 DRAWING #: 1853  
 PLAT = 1" - 1800'  
 SCALE: TICK MARK = 1" - 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/200  
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

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]*  
 L.L.S. #2124 : Ernest J. Benchek III



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

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

WATERSHED: WHEELING CREEK ELEVATION: 1196'  
 COUNTY/DISTRICT: OHIO/TRIADDELPHIA QUADRANGLE: VALLEY GROVE WV.  
 SURFACE OWNER: ROY E. FERRELL ACREAGE: 202.31 +/-  
 OIL & GAS ROYALTY OWNER: ROY E. FERRELL ACREAGE: 798.681 +/-  
 LEASE NUMBERS: \_\_\_\_\_

DATE: JULY 26, 2013  
 OPERATOR'S WELL #: ROY FERRELL OHI 1H  
 API WELL #: 47 69 00111H6A MOD  
 STATE COUNTY PERMIT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,665' TMD: 16,991'  
 WELL OPERATOR : CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT : ERIC B. GILLESPIE  
 ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070  
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

SURFACE HOLE DEC. LAT: 40.043242 SURVEYED LAT: 40° 02' 35.7"



Danielle Southall  
Regulatory Analyst II

July 29, 2013

Ms. Laura Cooper  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304

Re: Modification for Roy Ferrell OHI 1H API# 47-069-00111

Dear Ms. Cooper:

Enclosed please find a modification request for the above captioned well. We would like to move the top hole 42.00 +/- only. The bottom hole will not move. This well is situated on the Ferrell property, in Triadelphia District, Ohio County, West Virginia.

If you have any questions or require additional information, please contact me at 304-517-1416 ext 86024.

Sincerely,

A handwritten signature in blue ink that reads "Dee Southall".

Dee Southall  
p.p. Brittany Woody  
Associate Regulatory Technician

Enclosure(s)

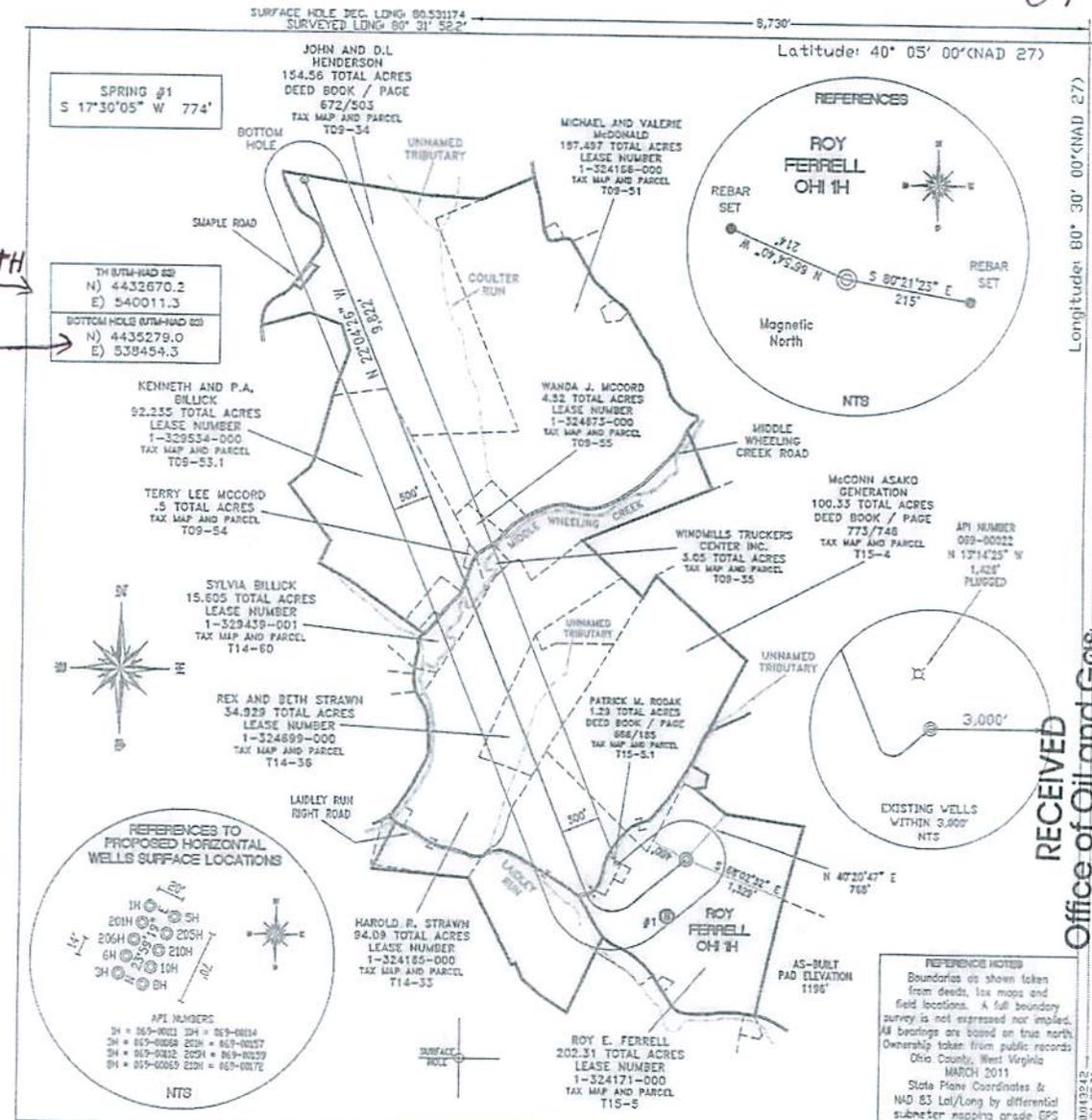
Received

AUG - 6 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

69-00111 MOD

previously 201H TH  
doesn't change



RECEIVED  
Office of Oil and Gas

JUL 29 2013

WV Department of Environmental Protection

FILE #: CHE 034  
DRAWING #: 1853  
SCALE: PLAT = 1" = 1800'  
TICK MARK = 1" = 2000'  
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Signed: [Signature]  
L.L.S. #2124 : Ernest J. Benchek III



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

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WATERSHED: WHEELING CREEK ELEVATION: 1196'

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SURFACE OWNER: ROY E. FERRELL ACREAGE: 202.31 +/-

OIL & GAS ROYALTY OWNER: ROY E. FERRELL ACREAGE: 798.681 +/-

LEASE NUMBERS: \_\_\_\_\_

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CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

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WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC B. GILLESPIE

ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070

CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: JULY 26, 2013

OPERATOR'S WELL #: ROY FERRELL OHI 1H

API WELL #: 47 69 STATE COUNTY PERMIT

SURFACE HOLE REG. LONG. 80° 31' 52.2" SURVEYED LAT. 40° 05' 00" (NAD 27)