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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 12, 2013

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

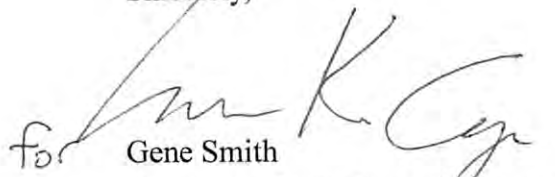
Re: Permit Modification Approval for API Number 6900157 , Well #: ROY FERRELL OHI 201E  
**changed top hole location**

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,

  
Gene Smith  
Regulatory/Compliance Manager  
Office of Oil and Gas



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 201H API# 47-069-00157

Dear Ms. Cooper:

Enclosed please find a modification request for the above captioned well. We would like to move the top hole 14.00 +/- 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

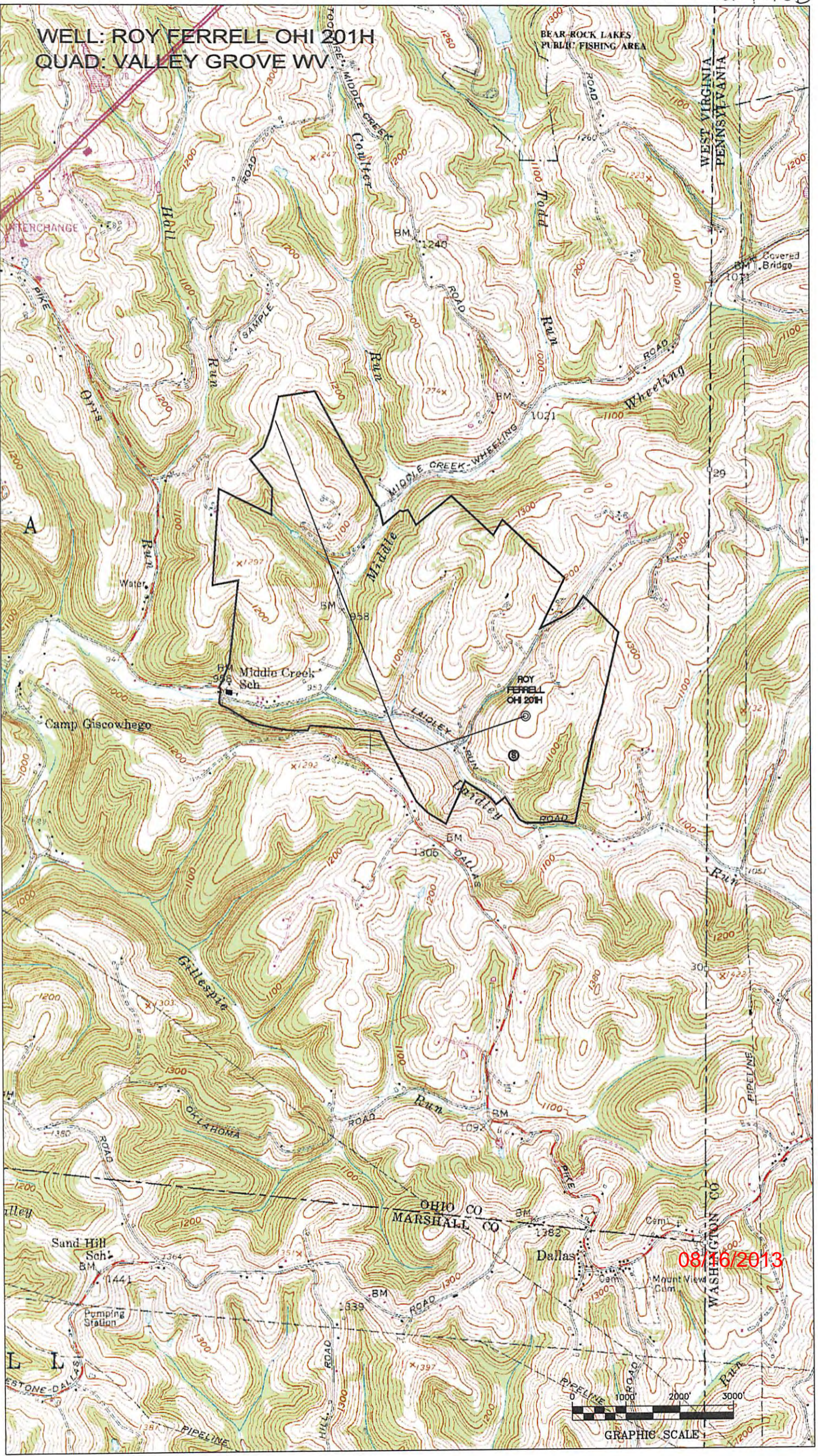
Enclosure(s)

Received

Office of Oil and Gas  
WV Dept. of Environmental Protection

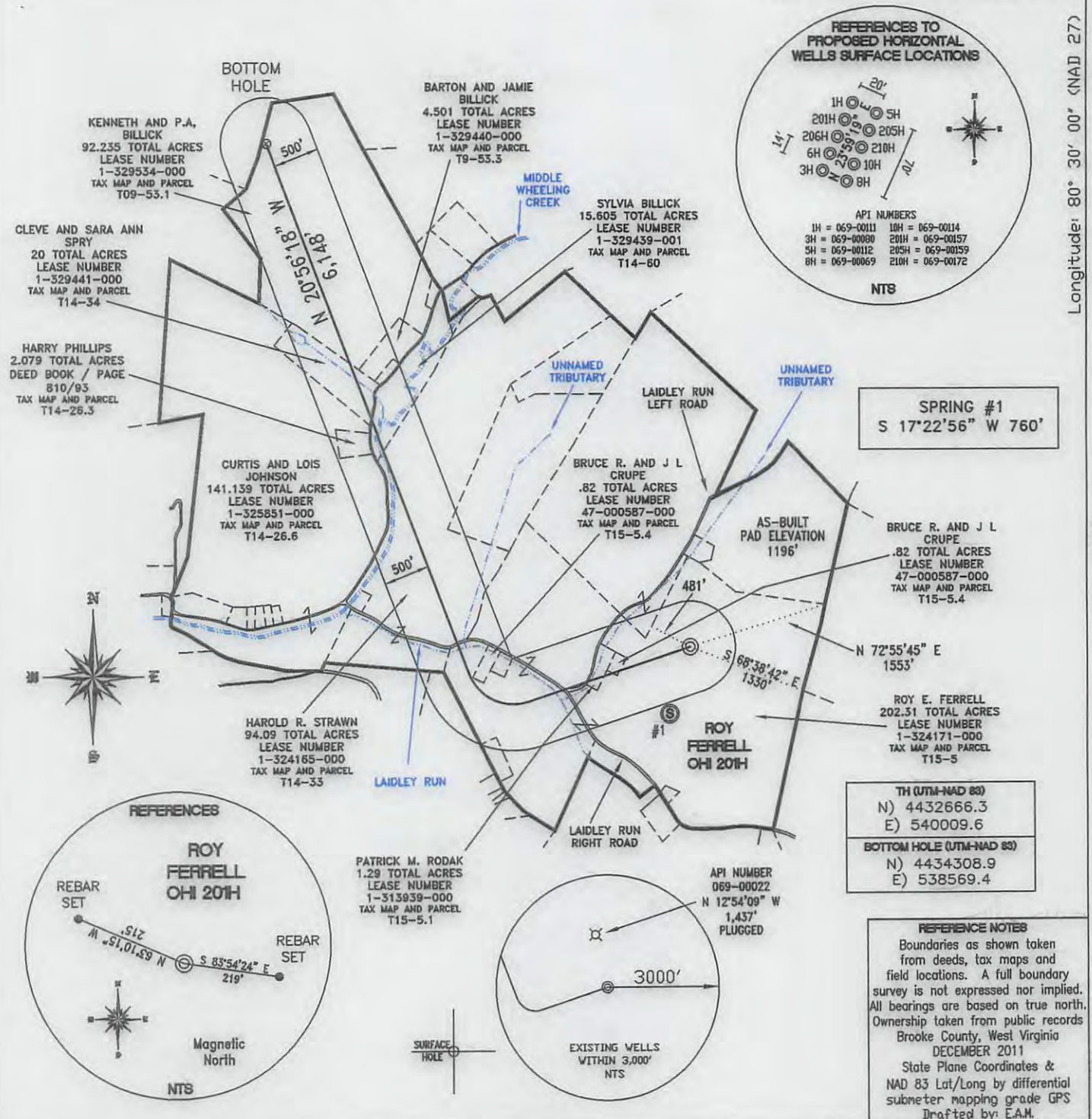
08/16/2013

WELL: ROY FERRELL OHI 201H  
QUAD: VALLEY GROVE WV



08/16/2013





SPRING #1  
S 17°22'56" W 760'

BRUCE R. AND J L CRUPE  
.82 TOTAL ACRES  
LEASE NUMBER  
47-000587-000  
TAX MAP AND PARCEL  
T15-5.4

AS-BUILT PAD ELEVATION  
1196'

ROY E. FERRELL  
202.31 TOTAL ACRES  
LEASE NUMBER  
1-324171-000  
TAX MAP AND PARCEL  
T15-5

TH (UTM-NAD 83)  
N) 4432666.3  
E) 540009.6

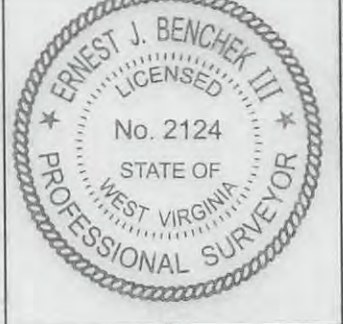
BOTTOM HOLE (UTM-NAD 83)  
N) 4434308.9  
E) 538569.4

**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 Brooke County, West Virginia DECEMBER 2011  
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS  
Drafted by: E.A.M.

FILE #: CHE 034  
DRAWING #: 1972  
PLAT = 1" - 1600'  
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: 1,196'

COUNTY/DISTRICT: OHIO/TRIADELPHIA QUADRANGLE: VALLEY GROVE WV.

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

OIL & GAS ROYALTY OWNER: ROY E. FERRELL ACREAGE: 549.949 +/-

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,660' TMD: 13,570'

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

08/16/2013

SURFACE HOLE DEC. LAT. 40.043206 SURVEYED LAT. 40° 02' 35.5"