

NOTES ON SURVEY

- 1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
- 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 04/18/08.
- 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT RECORDED IN BOOK 15 PAGE 119 & OTHER DEEDS OF RECORD.
- 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF LOGAN COUNTY IN APRIL, 2008.
- 5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
- 6. ORIGINAL PLAT DATED 09/25/08 REVISED 03/30/10 TO ROTATE & EXTEND HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.
- REVISED 08/17/10 TO SHORTEN HORIZONTAL LEG & CHANGE BOTTOM HOLE COORDINATES, ETC.

McDONALD LAND CO. & ANDERSON HEIRS, LLC ET AL
 N 02°14' E 511.20'
 N 35°18' E 185.30'

W.W. McDONALD LAND CO.
 5,990.47 ACRES±

WELL NO. WV 511957
 BOTTOM HOLE
 STATE PLANE COORDINATES (SOUTH ZONE) (NAD'27)
 N. 261,060
 E. 1,733,270

LAT=(N) 37.71330
 LONG=(W) 81.92207
 UTM (NAD'83)
 N. 4,174,418
 E. 418,743

N. 4,172,990
 E. 419,677

WELL NO. WV 511957
 STATE PLANE COORDINATES (SOUTH ZONE) (NAD'27)
 N. 256,372
 E. 1,736,333

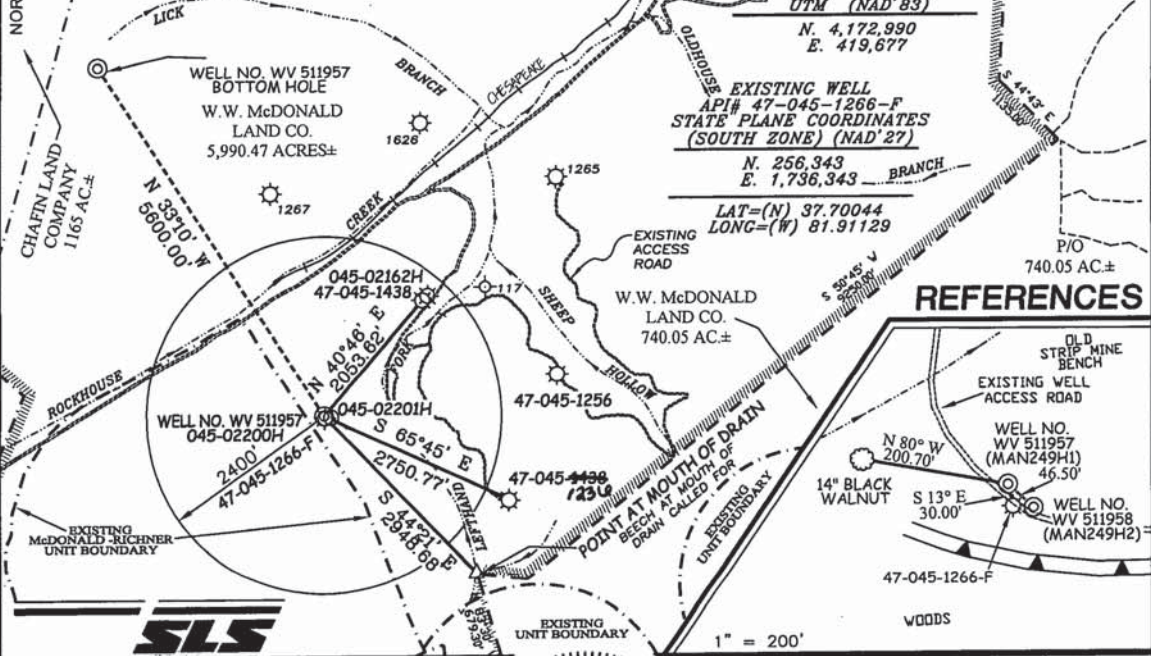
LAT=(N) 37.70051
 LONG=(W) 81.91132

UTM (NAD'83)
 N. 4,172,990
 E. 419,677

EXISTING WELL
 API# 47-045-1266-F
 STATE PLANE COORDINATES (SOUTH ZONE) (NAD'27)
 N. 256,343
 E. 1,736,343

LAT=(N) 37.70044
 LONG=(W) 81.91129

W.W. McDONALD LAND CO. LEASE
 8890.505 ACRES±
 WELL NO. WV 511957



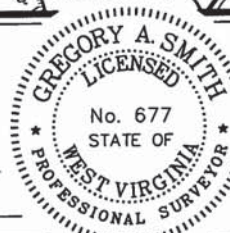
REFERENCES



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 17, 2010
 OPERATORS WELL NO. WV 511957
 API WELL NO. 47-045-02400H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3850P511957R2 (255-55)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2,000'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE: OIL ___ GAS INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1,360' WATERSHED LEFTHAND FORK OF ROCKHOUSE CREEK
 DISTRICT TRIADELPHIA COUNTY LOGAN QUADRANGLE MAN 7.5'
 SURFACE OWNER W.W. McDONALD LAND COMPANY ACREAGE 5,990.47±
 ROYALTY OWNER W.W. McDONALD LAND COMPANY LEASE ACREAGE 8,890.505±
 PROPOSED WORK: LEASE NO. 080608
 DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD ___
 FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
 PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION LOWER HURON
 ESTIMATED DEPTH 5,010' (TOTAL VERTICAL DEPTH)

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
 CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME
 PERMIT



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 13, 2012

FINAL INSPECTION REPORT

Horizontal Well Permit Cancelled

EQT PRODUCTION COMPANY,

The FINAL INSPECTION REPORT for the CANCELLED permit, API Well Number: 47-4502400, issued to EQT PRODUCTION COMPANY, and listed below has been received in this office. The permit has been cancelled as of 12/13/2012.

James Martin
Chief

Operator: EQT PRODUCTION COMPANY
Operator's Well No: 511957 - W. W. MCDONALD LAN
Farm Name: W. W. MCDONALD LAND COMP
API Well Number: 47-4502400
Date Issued: 11/29/2010

Date Cancelled: 12/13/2012

Promoting a healthy environment.



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

Randy C. Huffman, Cabinet Secretary
dep.wv.gov

November 29, 2010

WELL WORK PERMIT

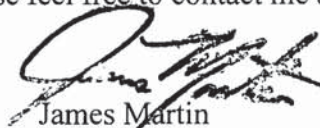
Horizontal Well

This permit, API Well Number: 47-4502400, issued to EQT PRODUCTION COMPANY, 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 of completion of drilling, 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: 511957 - W. W. MCDONALD LANI
Farm Name: W. W. MCDONALD LAND COMP,
API Well Number: 47-4502400
Permit Type: Horizontal Well
Date Issued: 11/29/2010

Promoting a healthy environment.

24

45.02400H

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

1) Well Operator EQT PRODUCTION COMPANY

Operator ID	045	3	456
County		District	Quadrangle

2) Operator's Well Name 511957 - W.W. McDonald Land Co. 3) Elevation 1,360'

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production X Underground Storage _____
Deep _____ Shallow X

5) Proposed Target Formation(s): Lower Huron Proposed Target Depth: 4,830'

6) Proposed Total Depth: TVD: 5,157' MD: 10,184'

Formation at Proposed Depth: Lower Huron

7) Approximate fresh water strata depths: 77', 97', 315', 377', 361'

8) Approximate salt water depths: 1049', 1132', 1377'

9) Approximate coal seam depths: 87', 247', 432'

10) Approximate void depths (coal, Karst, other): None reported

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work in detail: Drill and complete a new horizontal well.
Horizontal leg to go through the Lower Huron at an approx. length of 5,600', using a
packer plus method.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE For Drilling	INTERVALS Left in Well	CEMENT Fill-up (Cu.Ft)
	Size	Grade	Weight per ft.			
Conductor	13 3/8"	L.S.	37	40	40	N/A
Fresh Water	9 5/8"	L.S.	32.2	550	550	C.T.S.
Coal						
Intermediate	7"	J-55	20	2,593	2,593	C.T.S.
Production	4 1/2"	N-80	11.6	10,184	10,184	
Tubing	2 3/8"	J-55	4.6	May not be run, if run will be set 100' less than TD		
Liners						

Packers: Kind _____
Size _____
Depths Set _____

B.S. 11-10-10

RECEIVED
Office of Oil & Gas
NOV 15 2010
WV Department of
Environmental Protection