



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, June 12, 2018
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for 512915
47-103-03057-00-00

Modified landing point and bottom hole location

EQT PRODUCTION COMPANY

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.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 512915
Farm Name: COASTAL FOREST RESOURCES CO.
U.S. WELL NUMBER: 47-103-03057-00-00
Horizontal 6A Horizontal 6A Well - 1
Date Modification Issued: June 12, 2018

Promoting a healthy environment.

06/15/2018



47-103-03057 mod

September 26, 2017

Laura Adkins
West Virginia Department of Environmental Protection
601 57th Street SE
Charleston, WV 25304

RECEIVED
Office of Oil and Gas

SEP 27 2017

WV Department of
Environmental Protection

Re: Modification of 47-103-03057

Dear Ms. Adkins,

Attached is a modification for the above API number. The landing point was changed and the length was shortened, changing the bottom hole.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark
Regional Land Supervisor

Enc.

BIG177
WV 512915
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°37'30"

5,305'

4,068'

TH

80°35'00"

BOTTOM HOLE LONGITUDE 80°35'00"

80°35'00"

COUNTY ROUTE

PERMIT

NAD '27 GRID NORTH

WELL TIES		
ID	BEARING	DISTANCE
L1	N 44°47' W	2459.66'
L2	N 61°12' E	631.44'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 00°08' W	1256.52'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
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C2	292.81'	1365.40'	N 22°08'27" W	292.25'

AS DRILLED COORDINATES
(BIG177H4 512915)
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 NAD'27 GEO. LAT-(N) 39.582563 LONG-(W) 80.584085
 NAD'83 UTM (M) N. 4,381,519.296 E. 535,733.668

LANDING POINT
 NAD'27 S.P.C.(FT) N. 397,856.73 E. 1,694,308.71
 NAD'27 GEO. LAT-(N) 39.587282 LONG-(W) 80.584680
 NAD'83 UTM (M) N. 4,382,042.77 E. 535,680.21

BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 404,659.80 E. 1,690,701.51
 NAD'27 GEO. LAT-(N) 39.605838 LONG-(W) 80.597773
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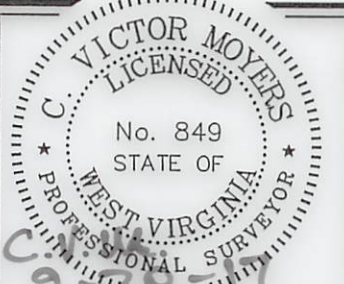
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 NAD'27 GEO. LAT-(N) 39.611991 LONG-(W) 80.602164
 NAD'83 UTM (M) N. 4,384,778.23 E. 534,166.70

SCALE 1" = 2000' FILE NO. 6806P512915R16AD.dwg
 DATE MAY 20, 2013
 REVISED 07/29/13, 12/04/13, 09/10/14, 08/25/15,
 09/14/15, 10/06/16, 03/31/17, 04/20/17 & 09/20/17

OPERATORS WELL NO. WV 512915
 API WELL NO. 47 — 103 — 03057
 STATE COUNTY PERMIT



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

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

LEGEND

- LEASE LINE
- SURFACE LINE
- PROPOSED WELL
- LATERAL
- AS-DRILLED WELL
- LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
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- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- GRANT DISTRICT TAX MAP-PARCEL

06/15/2018

WELL OPERATOR EQT PRODUCTION COMPANY **DESIGNATED AGENT** REX C. RAY
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 **ADDRESS** 115 PROFESSIONAL PLACE P.O. BOX 280
 BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

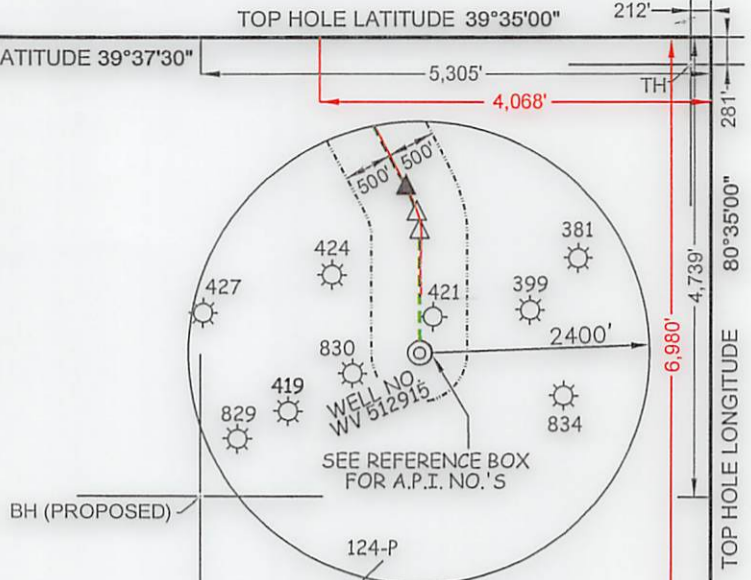
BIG177
WV 512915
EQT PRODUCTION COMPANY

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SURFACE OWNERS		
G-TM-2-04	JOHN C. COMER ET UX	104.00 ACRES±
G-TM-2-05	EDWIN L. DULANEY ET UX	104.00 ACRES±
G-TM-2-12	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	3.63 ACRES±
G-TM-2-12.2	TEORA & SANDRA DULANEY	66.64 ACRES±
G-TM-3-05	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	179.00 ACRES±
G-TM-3-13	EDWARD L. DULANEY II	164.75 ACRES±
G-TM-3-23	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	167.75 ACRES±
G-TM-7-03	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	178 ACRES±
G-TM-7-3.2	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	156.98 ACRES±
G-TM-7-10	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	120 ACRES±
G-TM-8-01	DANNY STOCKSLAGER ET AL	170 ACRES±
G-TM-8-10	GARLAND MINOR ET AL	48.1 ACRES±
G-TM-8-17	KENNETH & LORRAINE WILDMAN	67 ACRES±
G-TM-8-18	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	337 ACRES±
G-TM-8-19	PHILLIP & KIMBERLY SHREVE	46.45 ACRES±
G-TM-8-23	DALE DULANEY ET AL	70.81 ACRES±
G-TM-8-34	HALLIE HARDBARGER	54.01 ACRES±
G-TM-8-35	DEBORAH FRONCZEK ET AL	15.5 ACRES±
G-TM-8-58	HIGGINS CHAPEL CHURCH OF CHRIST	0.99 ACRES±
G-TM-8-64	MARY EASTHAM ET AL	1.45 ACRES±
G-TM-8-65	IKEY & TINA WILLEY	2.15 ACRES±
G-TM-8-66	EOM GATHERING OPOC LLC	0.42 ACRES±
G-TM-13-06	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	217.19 ACRES±

ROYALTY OWNERS		
EQT PRODUCTION COMPANY	300 AC.±	LEASE NO. 102894
JOSEPH SHIBEN & MINNIE SHIBEN ESTATE	1030 AC.±	LEASE NO. 102814
JAMES E. NEWMAN ET AL	P/O 332 AC.±	LEASE NO. 300653 * SEE NOTE 4

SURFACE OWNERS - CONTINUED		
G-TM-13-6.1	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	55.06 ACRES±
G-TM-13-07	MANSEL McDIFFITT ET AL	51.8 ACRES±



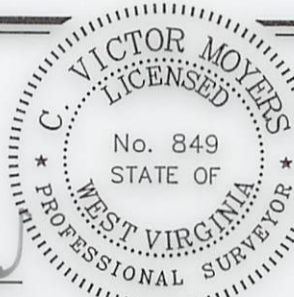
BH (AS DRILLED)

NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. SEE REFERENCE BOX FOR DWELLING WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
- AS DRILLED INFORMATION PROVIDED BY EQT.
- AS-DRILLED PATH DOES NOT PENETRATE LEASE NO. 300653.

AS DRILLED COORDINATES

(BIG177H4 512915)
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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. 849 *C. Victor Moyers*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MAY 20 , 20 13
 REVISED 07/29/13, 12/04/13, 09/10/14, 08/25/15, 09/14/15, 10/06/16, 03/31/17, 04/20/17 & 09/20/17
 OPERATORS WELL NO. WV 512915
 API WELL NO. 47 - 103 - 03057 MOD
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 6806P512915R16AD.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE SEE NOTE 2

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

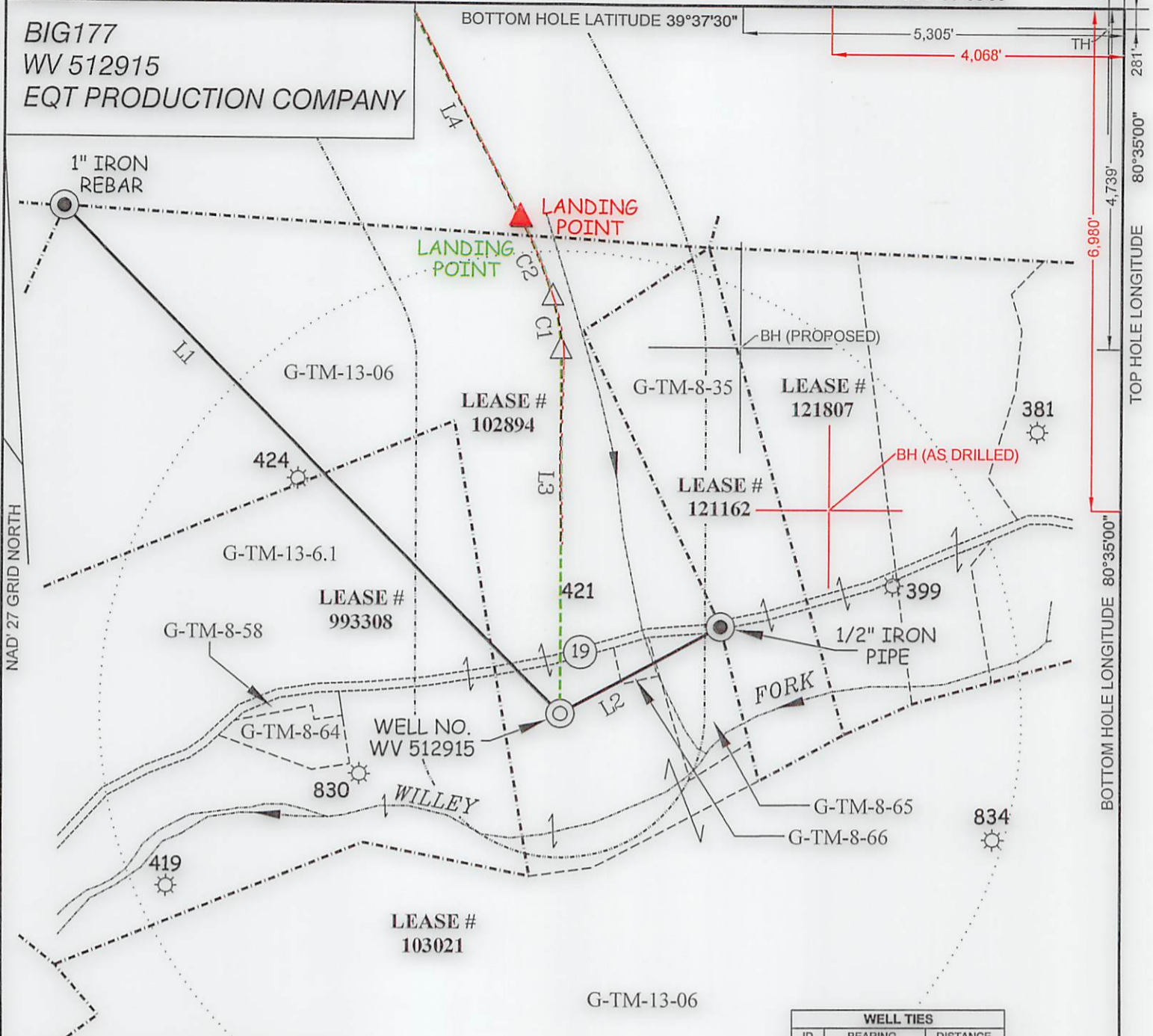
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: PAD ELEVATION 811' WATERSHED WILLEY FORK OF NORTH FORK FISHING CREEK
 DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'
 SURFACE OWNER COASTAL FOREST RESOURCES CO. d/b/a COASTAL TIMBERLANDS CO. ACREAGE 27± OF 217±
 ROYALTY OWNER HIGGINS FAMILY TRUST ACREAGE 242.5
 PROPOSED WORK: LEASE NO. 103021
 DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 6,881'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
 BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

06/15/2018

BIG177
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LATERAL DATA

ID	BEARING	DISTANCE
L4	N 28°00' W	10,270.89'

AS-DRILLED TOTAL LATERAL LENGTH = 7701.71'

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