

PEN54
WV 514475
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°15'00" 8,855'

NAD 27 GRID NORTH

6,905'

BOTTOM HOLE LONGITUDE 80°52'30" 12,351'

TOP HOLE LONGITUDE 80°55'00"

WELL TIES		
ID	BEARING	DISTANCE
L1	S 46°39' W	1633.51'
L2	S 45°19' E	1798.92'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 40°49' E	208.87'

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	1,127.80'	595.88'	S 80°57' E	967.35'

LATERAL		
ID	BEARING	DISTANCE
L4	S 25°56' E	10,935.64'




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Land & Energy Development
Solutions from the ground up.
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www.slsurvey.com

AS DRILLED COORDINATES (PEN54 H2)
 (S.P.C. NORTH ZONE) (UTM) ZONE 17 NORTH)
 NAD27 S.P.C. (FT) N. 279,201.87 E. 1,595,781.39
 NAD27 GEO. LAT. (N) 39.257756 LONG. (W) 80.027942
 NAD83 UTM (M) N. 4,345,392.18 E. 506,206.12
LANDING POINT
 NAD27 S.P.C. (FT) N. 279,330.86 E. 1,596,807.89
 NAD27 GEO. LAT. (N) 39.258155 LONG. (W) 80.028324
 NAD83 UTM (M) N. 4,345,426.77 E. 506,576.19
BOTTOM HOLE
 NAD27 S.P.C. (FT) N. 269,373.48 E. 1,601,254.07
 NAD27 GEO. LAT. (N) 39.231029 LONG. (W) 80.300255
 NAD83 UTM (M) N. 4,342,427.27 E. 508,105.81

SCALE **1" = 2000'** FILE NO. **8083AD514475**
 DATE **JUNE 25**, 20 **15**
 REVISED **07/01/15, 05/23/16, 07/12/16 & 08/17/16**
 OPERATORS WELL NO. **WV 514475**
 API WELL **47 — 085 — 10227H**
 NO. STATE COUNTY PERMIT

VICTOR MOYERS
 LICENSED
 No. 849
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 C.V. 8-17-16

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 PATH
- AS DRILLED PATH
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- STATE ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- CLAY DISTRICT
- TAX MAP-PARCEL

C-TM-00-00

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

05/19/2017

PEN54
WV 514475
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°15'00"

8,855'

ROYALTY OWNERS		
DONALD R. REYNOLDS ET AL	128 AC.±	LEASE NO. 1005918
DEAN E. FRANCAVIGLIA ET AL	153 AC.±	LEASE NO. 1005921
EQT PRODUCTION COMPANY ET AL	158 AC.±	LEASE NO. 708517

A	JERRY MORTON ET AL	243.50 ACRES±	C-TM-31-05
B	HEARTWOOD FORESTLAND FUND IV LP	185.30 ACRES±	C-TM-31-14
C	HEARTWOOD FORESTLAND FUND IV LP	196.90 ACRES±	C-TM-31-11
D	HEARTWOOD FORESTLAND FUND IV LP	53 ACRES±	C-TM-31-15
E	RANDALL LAMM	126.32 ACRES±	C-TM-31-19
F	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	42.51 ACRES±	C-TM-32-02
G	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	56.14 ACRES±	C-TM-32-03
H	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	57 ACRES±	C-TM-32-04
I	RANDALL LAMM	44 ACRES±	C-TM-36-5.1
J	RONNIE WAGES	66.95 ACRES±	C-TM-36-05
K	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	66.45 ACRES±	BH- C-TM-32-05
L	COASTAL FOREST RESOURCES COMPANY d/b/a COASTAL TIMBERLANDS COMPANY	57.60 ACRES±	C-TM-32-07
M	JACK MACKAY ET AL	235.03 ACRES±	C-TM-37-03
N	RONALD DODD ET AL	70.40 ACRES±	C-TM-37-02
O	JEFFERY JETT	18.31 ACRES±	C-TM-37-04
P	EDWIN G. WILLIAMS	40.77 ACRES±	C-TM-37-05
Q	EDWIN G. WILLIAMS	23 ACRES±	C-TM-37-5.1
R	MARY SIMMONS (LIFE) ET AL	30 ACRES±	C-TM-37-07
S	REBECCA COTTRILL ET AL	4.3 ACRES±	C-TM-37-08
T	CHARLES E. COTTRILL ET AL	16.15 ACRES±	C-TM-36-25
U	ROGER & MARY WILLIAMS	8.068 ACRES±	C-TM-37-5.2
V	JEFFERY JETT	25.015 ACRES±	C-TM-36-21.1
W	JUNIOR COTTRILL ET AL	33.065 ACRES±	C-TM-36-21
X	JEFFERY JETT	0.472 ACRES±	C-TM-36-21.2
Y	GARY COTTRILL	5.051 ACRES±	C-TM-36-11.4
Z	ROY DODD	2.51 ACRES±	C-TM-36-13
AA	GARY COTTRILL	40.847 ACRES±	C-TM-36-11.5
BB	GARY COTTRILL ET AL	23.322 ACRES±	C-TM-36-11
CC	ERNEST McATEE ET AL	48.88 ACRES±	C-TM-36-20
DD	PAUL HILVERS	90.70 ACRES±	C-TM-36-09
EE	POUSS FARMS LLC	19 ACRES±	C-TM-36-08
FF	JACK HARGIS ET AL	45.47 ACRES±	C-TM-36-04
GG	RANDALL LAMM	45.502 ACRES±	C-TM-36-03
HH	HEARTWOOD FORESTLAND FUND IV LP	168.20 ACRES±	C-TM-31-14.1
II	DONALD DEEM ET AL	133.07 ACRES±	C-TM-31-10
JJ	ANTERO TREATMENT LLC	175.85 ACRES±	C-TM-31-06

AS DRILLED COORDINATES
(PEN54 H2)
 (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

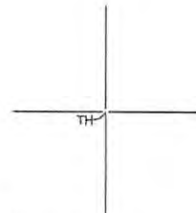
NAD27 S.P.C.(FT) N. 279,201.67 E. 1,595,781.38
 NAD27 GEO. LAT-(N) 39.257758 LONG-(W) 80.927542
 NAD83 UTM (M) N. 4,345,392.18 E. 506,266.12

LANDING POINT

NAD27 S.P.C.(FT) N. 279,330.88 E. 1,596,807.89
 NAD27 GEO. LAT-(N) 39.258155 LONG-(W) 80.923924
 NAD83 UTM (M) N. 4,345,436.77 E. 506,578.16

BOTTOM HOLE

NAD27 S.P.C.(FT) N. 269,373.48 E. 1,601,656.07
 NAD27 GEO. LAT-(N) 39.231029 LONG-(W) 80.906255
 NAD83 UTM (M) N. 4,342,427.97 E. 508,105.81

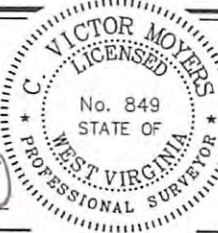


NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'.
3. AS DRILLED INFORMATION PROVIDED BY EQT.

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 Solutions from the ground up.
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 www.slsenergy.com

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 JUNE 25, 20 15
 REVISED 07/01/15, 06/23/16, 07/12/16 & 08/17/16
 OPERATORS WELL NO. WV 514475
 API WELL NO. 47 - 085 - 10227H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8083AD514475.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 LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION:
 PAD ELEVATION 1,016' WATERSHED NORTH FORK HUGHES RIVER
 DISTRICT CLAY COUNTY RITCHIE QUADRANGLES PENNSBORO & PULLMAN 7.5'

SURFACE OWNER JERRY MORTON ET AL ACREAGE 243.50±
 ROYALTY OWNER ELLEN S. FRANCAVIGLIA ET AL ACREAGE 268±
 PROPOSED WORK: LEASE NO. 105403
 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 MARCELLUS
 ESTIMATED DEPTH 6,275'

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

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05/19/2017