



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, February 24, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit Modification Approval for SIZEMORE 11H
47-103-03349-00-00

Extending Lateral Length

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: SIZEMORE 11H
Farm Name: ANTHONY W. & KIMBERLY A. SIZEMORE
U.S. WELL NUMBER: 47-103-03349-00-00
Horizontal 6A New Drill
Date Modification Issued: 2/24/2021

Promoting a healthy environment.

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

1) Well Operator: EQT Production Company 306686 Wetzel Center Littleton
Operator ID County District Quadrangle

2) Operator's Well Number: 11H Well Pad Name: Sizemore

3) Farm Name/Surface Owner: Anthony W. Sizemore Public Road Access: CR 7/16

4) Elevation, current ground: 1148' (built) Elevation, proposed post-construction: 1148' (built)

5) Well Type (a) Gas X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes *DMAH 10/7/20*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7336', 50', 2,620 psi

8) Proposed Total Vertical Depth: 7,336'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19,726'

11) Proposed Horizontal Leg Length: 10,880'

12) Approximate Fresh Water Strata Depths: 176', 682', 717'

13) Method to Determine Fresh Water Depths: Offset Wells 47-103-02120; 47-103-02121; 47-103-02580

14) Approximate Saltwater Depths: 1,859'

15) Approximate Coal Seam Depths: 527'-531'; 754.5'-761', 888'-891'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No X

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(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

WV Department of
Environmental Protection

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26	New	A-500	85.6	40	40	101 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1156	1156	1095 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	P-110	40	2480	2480	977 ft ³ / CTS
Production	5 1/2	New	P-110	20	19726	19726	500' above intermediate casing
Tubing							
Liners							

DMAH 10/7/20

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	1050	18	Class A	1.18
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A	1.13
Coal							
Intermediate	9 5/8	12 3/8	0.395	7900	6320	Class A	1.18
Production	5 1/2	8 1/2	0.361	14360	11488	Class A/H	1.04 - 2.098
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

This well has been topset. EQT will continue drilling the curve. Drill the lateral in the Marcellus. Cement casing.

DWH 10/7/20

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): N/A - Site built

22) Area to be disturbed for well pad only, less access road (acres): N/A - Site built

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500’.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500’.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

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24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
Surface: Calcium Chloride. Used to speed the setting of cement slurries
Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.
Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retarder, Anti-Settling/Suspension Agent

WV Department of
Environmental Protection

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

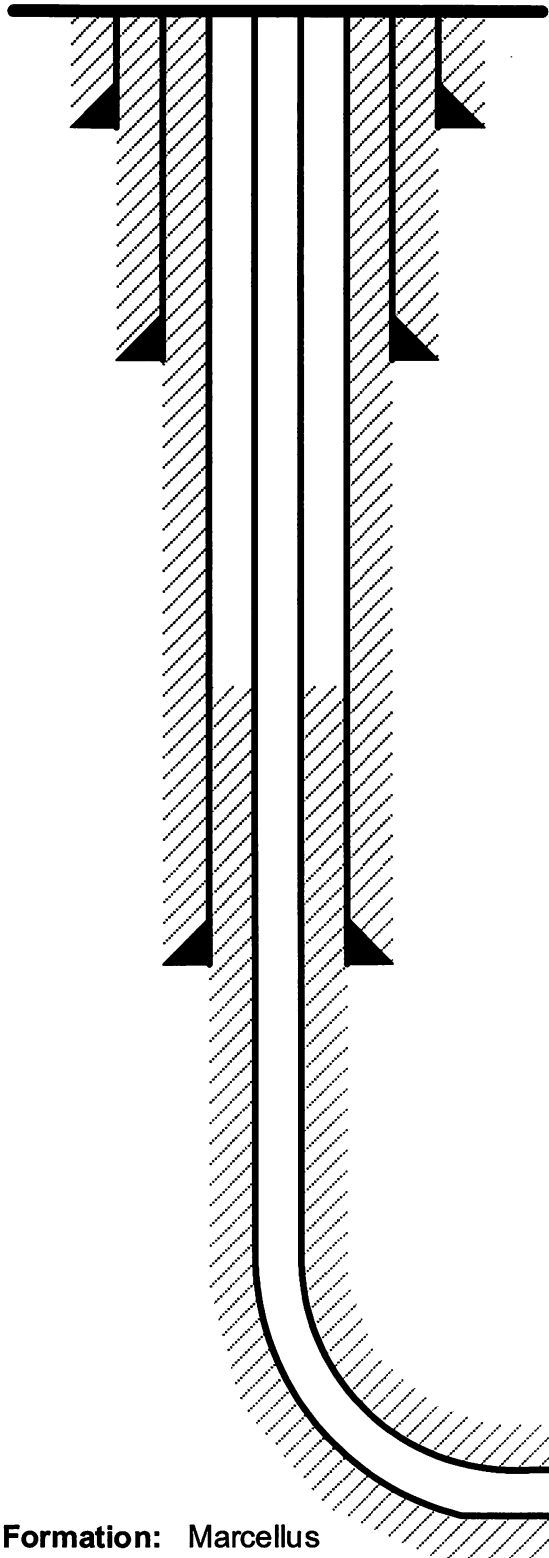
*Note: Attach additional sheets as needed.

EQT Production

Wellbore Diagram

Well: Sizemore 11H
Pad: Sizemore
Elevation: 1148' GL 1161' KB

County: Wetzel
State: West Virginia



Conductor @ 40'

26", 85.6#, A-500, cement to surface w/ Class A

Surface @ 1,156'

13-3/8", 54.5#, J-55, cement to surface w/ Class A

Intermediate @ 2,480'

9-5/8", 40#, P-110, cement to surface w/ Class A

Production @ 19,726' MD / 7,336' TVD

5-1/2", 20#, P-110, cement to 500' inside 9-5/8" w/ Class A/H

Formation: Marcellus

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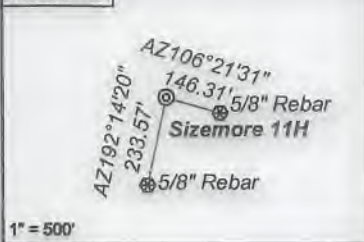
FEB 12 2021

WV Department of
Environmental Protection

DMH 10/7/20

**Sizemore 11H
LIT51
EQT Production Company**

Well References

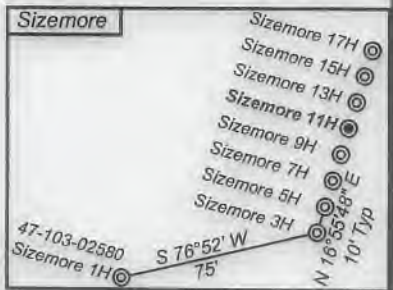
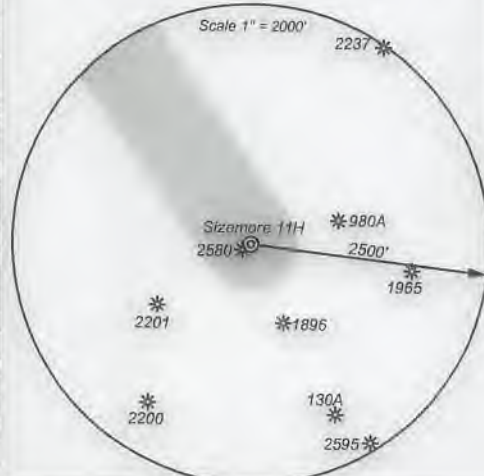


Notes:
Sizemore 11H coordinates are
NAD 27 N: 418,988.03 E: 1,710,215.98
NAD 27 Lat: 39.645807 Long: -80.529100
NAD 83 UTM N: 4,388,561.73 E: 540,419.39
Sizemore 11H Landing Point coordinates are
NAD 27 N: 422,269.06 E: 1,707,848.81
NAD 27 Lat: 39.654740 Long: -80.537641
NAD 83 UTM N: 4,389,549.27 E: 539,681.54
Sizemore 11H Bottom Hole coordinates are
NAD 27 N: 429,982.38 E: 1,700,155.49
NAD 27 Lat: 39.653748 Long: -80.536478
NAD 83 UTM N: 4,391,853.93 E: 537,298.60
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Plat orientation, corner and well ties are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	16	9	Wetzel	Center	Anthony Sizemore	75.36
2	12	31	Wetzel	Center	John S. Starkey, et al.	22.50
3	12	24	Wetzel	Center	Matthew L. Kennedy	87.07
4	12	19	Wetzel	Center	Nancy E. Jolliffe	172.10
5	12	19.6	Wetzel	Center	EQT Production Company	1.70
6	12	21	Wetzel	Center	Jamie L. & Melissa G. Dent	78.30
7	12	11.1	Wetzel	Center	Timothy C. White, Jr.	8.32
8	12	11.3	Wetzel	Center	Lornie R. & Judith Anderson	5.00
9	12	11	Wetzel	Center	Lornie R. & Judith Anderson	79.83
10	12	12.1	Wetzel	Center	Pansy O. Rice	2.00
11	12	10	Wetzel	Center	Florine Huggins	56.00
12	12	5	Wetzel	Center	Florine Huggins	35.00
13	12	4	Wetzel	Center	Florine Huggins	35.00
14	12	2	Wetzel	Center	Nancy E. Jolliffe	44.50
15	8	35	Wetzel	Center	Ashley Murphy, et al.	37.80
16	8	1	Wetzel	Clay	Charles G. & Carol J. Kamsch	95.70
17	8	32	Wetzel	Clay	Howard M. Henderson	10.41
18	8	30	Wetzel	Clay	Ashley Murphy, et al.	1.75
19	8	31	Wetzel	Clay	Howard M. Henderson	8.20
20	8	52	Wetzel	Center	Ashley Murphy, et al.	3.35
21	8	53	Wetzel	Center	Ashley Murphy, et al.	20.38
22	18	10.1	Wetzel	Center	Ray & Cassandra Shoveleng	5.72
23	18	12	Wetzel	Center	Thomas Jones, et al.	34.20
24	18	11	Wetzel	Center	Earl Null, et al.	20.00
25	18	33	Wetzel	Center	Anthony W. & Kimberly A. Sizemore	20.64
26	18	31	Wetzel	Center	Devona D. & Kelly M. Reed	18.25
27	18	28	Wetzel	Center	William J. Morris Revocable Trust	93.25
28	18	8	Wetzel	Center	Larry D. Roberts	44.50
29	12	30	Wetzel	Center	Bryan & Heather Rizer	1.50
30	18	10	Wetzel	Center	Calvin Cecil	3.18
31	16	8	Wetzel	Center	Marilyn E. Thomas	70.97
32	12	10.1	Wetzel	Center	Nancy E. Jolliffe	0.71
33	12	19.2	Wetzel	Center	Marilyn E. Thomas	1.23
34	12	19.4	Wetzel	Center	Marilyn E. Thomas	1.15
35	18	8	Wetzel	Center	Marilyn E. Thomas	70.97
36	12	20	Wetzel	Center	Nancy E. Jolliffe	2.27
37	16	3	Wetzel	Center	Nancy E. Jolliffe	1.20
38	12	28	Wetzel	Center	Roger R. & Diana F. Postlethwait	0.30
39	12	27	Wetzel	Center	Roger R. & Diana F. Postlethwait	0.50
40	12	19.5	Wetzel	Center	Jania & Terry Fisher	0.15
41	12	19.3	Wetzel	Center	Janis Fisher	0.35
42	12	16	Wetzel	Center	Nancy E. Jolliffe	208.81
43	12	18	Wetzel	Center	Horner L. Patricia J. Hostetter	3.46
44	12	17	Wetzel	Center	Pansy O. Rice	67.50
45	12	13	Wetzel	Center	Nancy E. Jolliffe	1.80
46	12	20	Wetzel	Center	Jamie L. & Melissa G. Dent	1.00
47	12	22.3	Wetzel	Center	EQT Production Company	6.78
48	12	22	Wetzel	Center	Reda M. Amos, et al.	14.77
49	12	23	Wetzel	Center	Reda M. Amos, et al.	55.30
50	6	21	Wetzel	Clay	Famela E. Pride	35.75
51	12	15.3	Wetzel	Clay	Steven A. & Melissa L. White	1.45
52	12	12.2	Wetzel	Clay	Zackary White	3.01
53	12	12	Wetzel	Clay	Nancy E. Jolliffe	41.25
54	12	14	Wetzel	Clay	Reda M. Amos, et al.	23.54
55	12	15	Wetzel	Center	Reda M. Amos, et al.	33.00
56	12	7	Wetzel	Center	George H. & Elizabeth Williams	61.76
57	12	11.2	Wetzel	Center	John Joseph	9.35
58	12	8	Wetzel	Center	Kenneth C. & Rebecca A. Shreve	30.75
59	6	26.1	Wetzel	Clay	Brian K. & Anna M. Watson	5.04
60	6	26	Wetzel	Clay	Ernest J. & Nancy L. Watson	66.87
61	6	3	Wetzel	Clay	Ernest J. & Nancy L. Watson	22.40
62	12	3	Wetzel	Center	Nancy E. Jolliffe	20.60
63	11	11	Wetzel	Center	Nancy E. Jolliffe	59.75
64	8	54	Wetzel	Center	Howard M. Henderson	19.00

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
65	8	47	Wetzel	Center	Howard M. Henderson	14.75
66	5	31	Wetzel	Clay	Charles & Carol Kamsch	71.80
67	5	58	Wetzel	Center	Charles & Carol Kamsch	81.76
68	8	59	Wetzel	Center	Robin D. Murphy, et al.	47.25
69	8	46	Wetzel	Center	Howard M. Henderson	13.20
70	8	45	Wetzel	Center	Howard M. Henderson	5.50
71	8	31.1	Wetzel	Center	Howard M. Henderson	18.43
72	8	31	Wetzel	Center	Howard M. Henderson	64.78
73	18	33.1	Wetzel	Center	Joseph F. John	1.00

Lease No.	Owner	Acres
870240	William Palmer, et al.	22.5
870173	Larry & Sharon Roberts	48.9
870180	Nancy E. Jolliffe, et al.	173.8
870085	Charles Lee Roberts, et ux., et al.	95.87
870090	Lloyd & Nancy Postlethwait, et al.	140
1047482	Allen Thompson Stagers, et al.	63
870216	Howard Henderson, et al.	92.4
870076	Pansy Rice Price, et al.	67.5
870694	Emma Jean Bradley, et al.	195.25
870248	Evelyn Florine Huggins, et al.	91.13
300600	ET Blue Grass, et al.	274
870256	Stone Hill Mineral Holdings, LLC	37.157
870160	Green Dot Farm, Inc.	167.5
1028831	Sondra S. Zuback, et al.	19
1041507	Howard Henderson	100.7975

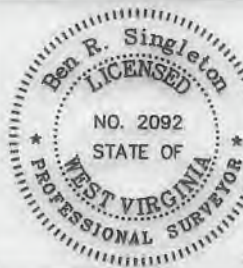


- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⊖ WV County Route
- ⊖ WV State Route



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.

Ben R. Singleton
P.S. 2092



SEAL

FILE NO: 208-19
DRAWING NO: Sizemore 11H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: February 10 20 21
OPERATOR'S WELL NO.: Sizemore 11H
API WELL NO MOD
47 103 03349
STATE COUNTY PERMIT

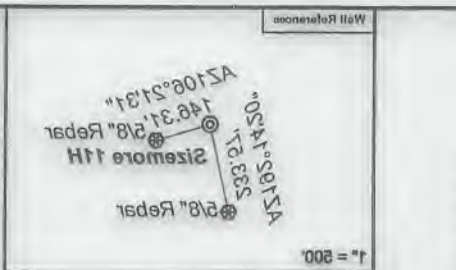
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1148' WATERSHED Tributary of Sugar Run QUADRANGLE: Littleton
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Anthony W. & Kimberly A. Sizemore ACREAGE: 75.36
ROYALTY OWNER: Anthony W. Sizemore LEASE NO: 870171 ACREAGE: 75.36
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,336'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
Canonsburg, PA 15317 Bridgeport, WV 26330

**Sizemore 11H
LIT51
EQT Production Company**

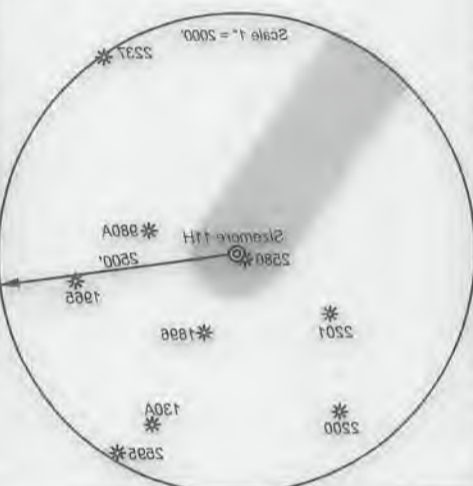
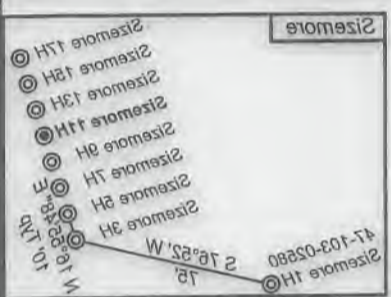
Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner
1	10	8	West	Center	Anthony Sizemore
2	12	31	West	Center	John G. Stucky, et al.
3	12	24	West	Center	Matthew J. Kennedy
4	12	10	West	Center	Nancy E. Jolliffe
5	12	10B	West	Center	EQT Production Company
6	12	27	West	Center	James L. & Melissa G. Dent
7	12	11A	West	Center	Timothy C. White, Jr.
8	12	11C	West	Center	Louise R. & Judith Anderson
9	12	11	West	Center	Louise R. & Judith Anderson
10	12	12A	West	Center	Janet O. Riser
11	12	10	West	Center	Phyllis Huggins
12	12	8	West	Center	Phyllis Huggins
13	12	4	West	Center	Phyllis Huggins
14	12	2	West	Center	Nancy E. Jolliffe
15	8	28	West	Center	Ashley Murphy, et al.
16	8	1	West	Clay	Charles G. & Carol J. Kemmer
17	8	32	West	Clay	Howard M. Henderson
18	8	30	West	Clay	Ashley Murphy, et al.
19	8	31	West	Clay	Howard M. Henderson
20	8	25	West	Center	Ashley Murphy, et al.
21	8	23	West	Center	Ashley Murphy, et al.
22	10A	10A	West	Center	Roy & Cassandra Stalder
23	12	12	West	Center	Thomas Jones, et al.
24	12	11	West	Center	Earl Hall, et al.
25	10	23	West	Center	Anthony W. & Kimberly A. Sizemore
26	12	31	West	Center	Dwaine D. & Kelly M. Reed
27	12	38	West	Center	William J. Marie Revocable Trust
28	8	8	West	Center	Larry D. Roberts
29	10	30	West	Center	Bryan & Heather Brown
30	10	10	West	Center	Carlin Cook
31	8	8	West	Center	Marjorie E. Thomas
32	12	10A	West	Center	Nancy E. Jolliffe
33	12	10A	West	Center	Marjorie E. Thomas
34	12	10A	West	Center	Marjorie E. Thomas
35	12	10A	West	Center	Marjorie E. Thomas
36	12	30	West	Center	Nancy E. Jolliffe
37	10	4	West	Center	Nancy E. Jolliffe
38	12	28	West	Center	Roger R. & Diane E. Finkbeiner
39	12	32	West	Center	Roger R. & Diane E. Finkbeiner
40	12	10A	West	Center	Larry & Terry Farn
41	12	10A	West	Center	James Fritzer
42	12	18	West	Center	Nancy E. Jolliffe
43	12	18	West	Center	Home L. Patricia J. Holston
44	12	17	West	Center	Phyllis O. Riser
45	12	12	West	Center	Nancy E. Jolliffe
46	12	30	West	Center	James L. & Melissa G. Dent
47	12	22A	West	Center	EQT Production Company
48	12	22	West	Center	Reda M. Amos, et al.
49	12	21	West	Clay	Reda M. Amos, et al.
50	12	21	West	Clay	Patricia E. Frye
51	12	12A	West	Clay	James L. & Melissa L. White
52	12	12A	West	Clay	Sherry White
53	12	12	West	Clay	Nancy E. Jolliffe
54	12	14	West	Clay	Reda M. Amos, et al.
55	12	18	West	Center	Reda M. Amos, et al.
56	12	7	West	Center	George H. & Elizabeth Williams
57	12	11A	West	Center	John Joseph
58	12	8	West	Center	Kenneth C. & Rebecca A. Brnaw
59	8	20A	West	Clay	Brian K. & Anne M. Watson
60	8	25	West	Clay	Ernest L. & Nancy L. Watson
61	8	2	West	Clay	Ernest L. & Nancy L. Watson
62	12	3	West	Center	Nancy E. Jolliffe
63	11	11	West	Center	Nancy E. Jolliffe
64	8	8	West	Center	Howard M. Henderson

Notes:
Sizemore 11H coordinates are
NAD 83 UTM N: 4,388,561.73 E: 540,419.39
NAD 83 UTM N: 4,388,561.73 E: 540,419.39
Sizemore 11H Bottom Hole coordinates are
NAD 83 UTM N: 4,388,561.73 E: 540,419.39
NAD 83 UTM N: 4,388,561.73 E: 540,419.39
West Virginia Coordinate system of 1927 (North Zone)
based upon Differential GPS Measurements.
Flat orientation, corner and well are based upon
the grid north meridian.
Well location references are based upon the grid north
meridian.
UTM coordinates are NAD83, Zone 17, Meters.



Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner
59	8	17	West	Center	Howard M. Henderson
60	8	31	West	Clay	Charles & Carol Kemmer
61	8	50	West	Center	Charles & Carol Kemmer
62	8	50	West	Center	Robert D. Murphy, et al.
63	8	48	West	Center	Howard M. Henderson
64	8	48	West	Center	Howard M. Henderson
65	8	31A	West	Center	Howard M. Henderson
66	8	31	West	Center	Howard M. Henderson
67	8	31	West	Center	Joseph F. Jolin

Lease No.	Owner	Acres
870240	William Palmer, et al.	22.5
870173	Larry & Sharon Roberts	48.9
870180	Nancy E. Jolliffe, et al.	173.8
870085	Charles Lee Roberts, et al.	92.87
870000	Lloyd & Nancy Postlewait, et al.	140
1047482	Allan Thompson Stagger, et al.	63
870216	Howard Henderson, et al.	92.4
870076	Parry Rice Price, et al.	67.5
870884	Emma Jean Bradley, et al.	182.25
870248	Evelyn Florine Huggins, et al.	91.13
300800	Et Blue Grass, et al.	274
870258	Stone Hill Mineral Holdings, LLC	37.151
870180	Green Dot Farm, Inc.	187.5
1028831	Sandra S. Zupack, et al.	19
1041202	Howard Henderson	100.2975



- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

Ben R. Singletary
PROFESSIONAL SURVEYOR
NO. 2082
STATE OF WEST VIRGINIA
SEAL

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.
P.S. 2092



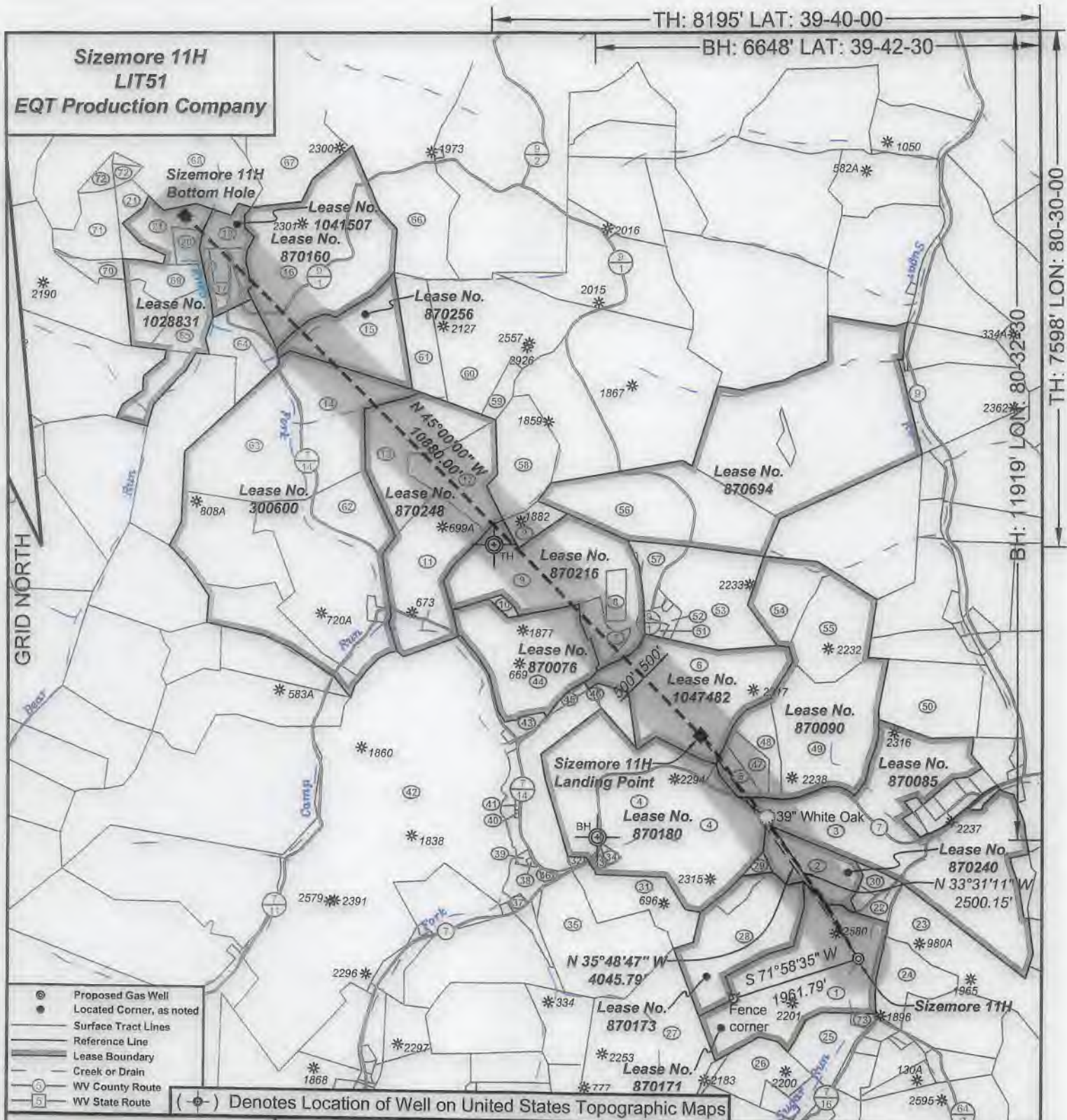
STATE COUNTY PERMIT
47 - 103 - 03349
API WELL NO. MOD
OPERATOR'S WELL NO.: Sizemore 11H
DATE: February 10 20 21

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

FILE NO.: 208-18
DRAWING NO.: Sizemore 11H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1148' WATERSHED: Tributary of Sugar Run QUADRANGLE: Littleton
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Anthony W. & Kimberly A. Sizemore
ROYALTY OWNER: Anthony W. Sizemore
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,336'

WELL OPERATOR: EQT Production Company
ADDRESS: 400 Woodliff Drive Canonsburg, PA 15317
DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330



- ⊙ Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⊖ WV County Route
- ⊖ WV State Route

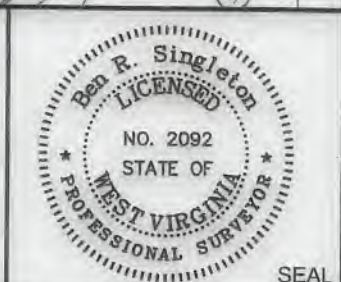
(⊙) Denotes Location of Well on United States Topographic Maps



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.

Ben R. Singleton

P.S. 2092



FILE NO: 208-19
 DRAWING NO: Sizemore 11H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: February 10 20 21
 OPERATOR'S WELL NO.: Sizemore 11H
 API WELL NO **M6D**
 47 - 103 - 03349
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1148' WATERSHED Tributary of Sugar Run QUADRANGLE: Littleton
 DISTRICT: Center COUNTY: Wetzel
 SURFACE OWNER: Anthony W. & Kimberly A. Sizemore ACREAGE: 75.36
 ROYALTY OWNER: Anthony W. Sizemore LEASE NO: 870171 ACREAGE: 75.36
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,336'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

ADDRESS: 400 Woodcliff Drive
 MEET OPERATOR: EOT Production Company
 ADDRESS: 112 Professional Place PO Box 580
 DESIGNATED AGENT: Joseph C. Malinow
 COUNTY: Mingo
 QUADRANGLE: Littleton
 WATERSHED: Tributary of Sugar Run
 ELEVATION: 1148
 DISTRICT: Center
 SURFACE OWNER: Anthony W. Sizemore
 LEASE NO.: 810171
 ACREAGE: 22.38
 DISTRICT: Center
 COUNTY: Mingo
 QUADRANGLE: Littleton
 WATERSHED: Tributary of Sugar Run
 ELEVATION: 1148
 SURFACE OWNER: Anthony W. & Kimberly A. Sizemore
 LEASE NO.: 810171
 ACREAGE: 22.38
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

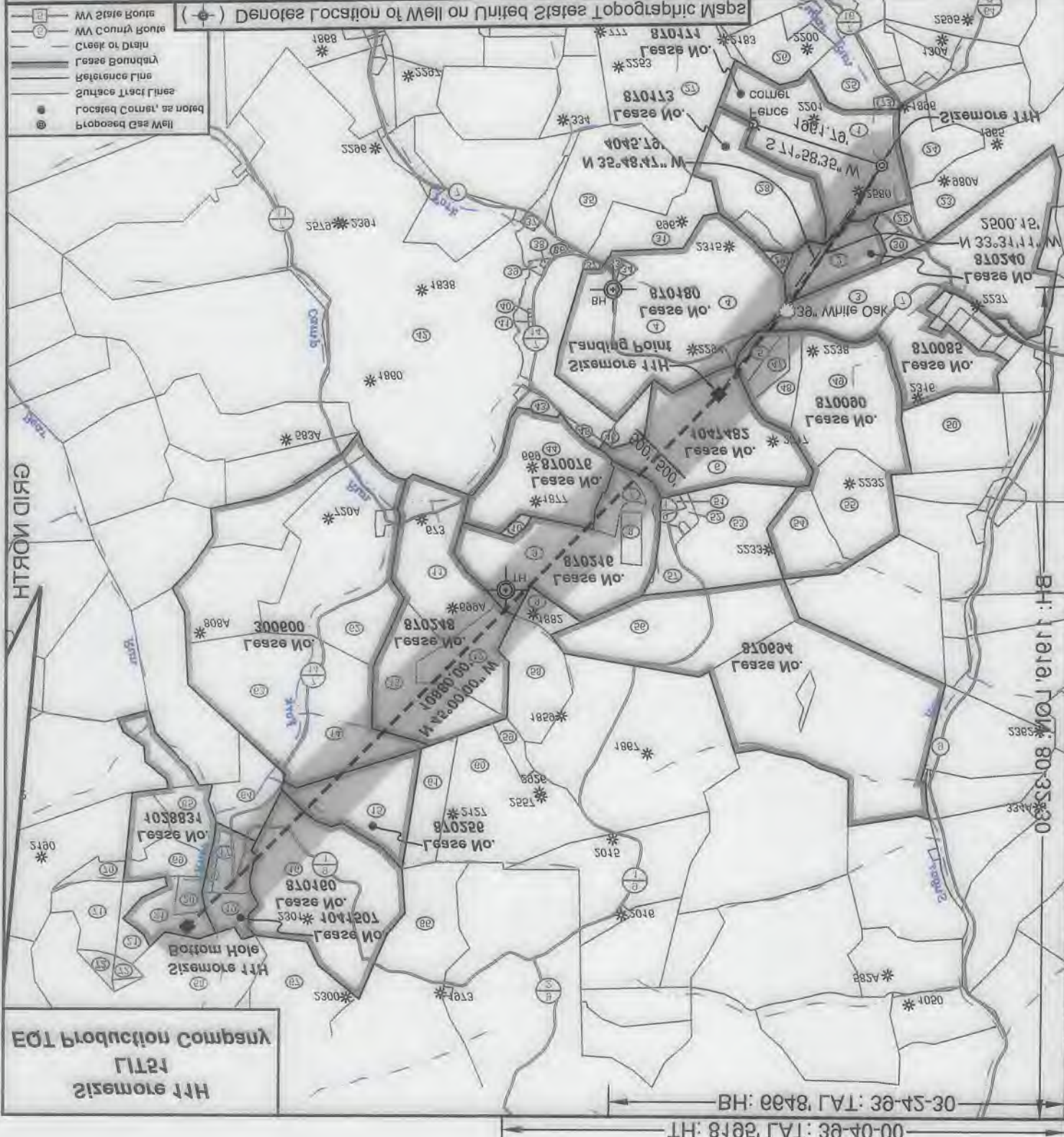
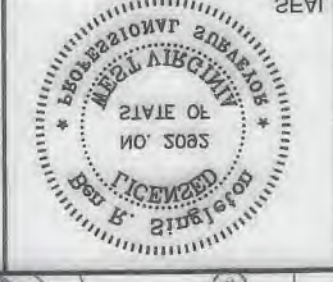
PROVEN SOURCE OF ELEVATION: 1:5200
 MINIMUM DEGREE OF ACCURACY: SCALE: 1" = 5000'
 DRAWING NO.: Sizemore 11H
 FILE NO.: 508-19



STATE: 24
 COUNTY: 103
 PERMIT: 03349
 API WELL NO: 1004
 OPERATOR'S WELL NO: Sizemore 11H
 DATE: February 10 2015



P.S. 5085
 Department of Environmental Protection,
 the regulations issued and prescribed by the
 and shows all the information required by law and
 correct to the best of my knowledge and belief
 I, the undersigned, hereby certify that this plat is



EOT Production Company
 11H
 Sizemore

WW-6A1
(5/13)

Operator's Well No. Sizemore 11H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Attached

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: EQT Production Company
 By: John Zavatchan *John F. Zavatchan Jr.*
 Its: Project Specialist - Permitting

Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>870171</u>	<u>Anthony W. Sizemore</u> James Sizemore and Donna Sizemore Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 84A-516 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707
<u>870173</u>	<u>Larry & Sharon Roberts</u> Larry Roberts and Sharon K. Roberts, h/w Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 90A/190 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707
<u>870240</u>	<u>William Palmer, et al.</u> William A. Palmer, a single man Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 112A/264 OG 116A/878 & 135A/359 OG 138A/54 OG 138A/1 OG 175A/707
<u>870085</u>	<u>Charles Lee Roberts, et ux., et al.</u> Charles Lee Roberts and Shirley E. Roberts, h/w Drilling Appalachian Corporation Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc.	Drilling Appalachian Corporation Grenadier Energy Partners, LLC Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. EQT Production Company	"at least 1/8th per WV Code 22-6-8"	OG 84A/452 OG 124A/9 & 136A/538 OG 138A/54 OG 138A/1 OG 175A/707

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870180

Nancy E. Jolliffe, et al.

Joe B. Jolliffe
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 89A/439
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

870090

Lloyd & Nancy Postlethwait, et al.

Lloyd Postlethwait and Nancy Postlethwait
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 85A/667
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

1047482

Allen Thompson Staggers, et al.

Enix Anderson and Mary P. Anderson, his wife
South Penn Oil Company
Hope Natural Gas Company
Consolidated Gas Supply Corporation
Consolidated Gas Transmission Corporation
CNG Development Company
CNG Producing Company
Dominion Exploration & Production, Inc.
Consol Gas Company
CNX Gas Company LLC
Drilling Appalachian Corporation

South Penn Oil Co.
Hope Natural Gas Company
Consolidated Gas Supply Corporation
Consolidated Gas Transmission Corporation
CNG Development Company
CNG Producing Company
Dominion Exploration & Production, Inc.
Consol Gas Company
CNX Gas Company LLC
Drilling Appalachian Corporation
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

DB 39/520
OG 9A/230
DB 233/387
OG 66A/69
OG 67A/453
Unrecorded agreement
WV SOS
Corp. Book 13/108
Misc. Book 96/307
OG 157A/654
OG 253A/205

870216

Howard Henderson, et al.

Maxine Henderson
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 81A/254
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

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870076

Panzy Rice Price, et al.

Panzy (Rice) Price
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 80A/254
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

870248

Evelyn Florine Huggins, et al.

Evelyn Florine Huggins, widow

EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 255A/151

300600

ET Blue Grass, et al.

Peter Glover and Elizabeth Glover, h/w
South Penn Oil Company
Hope Natural Gas Company
Consolidated Gas Supply Corporation
Consolidated Gas Transmission Corporation
CNG Transmission Corporation
Eastern States Oil & Gas, Inc.
Blazer Energy Corp.
Eastern States Oil & Gas, Inc.
Eastern States, Inc.
Equitable Production-Eastern States, Inc.
Equitable Production Company

South Penn Oil Company
Hope Natural Gas Company
Consolidated Gas Supply Corporation
Consolidated Gas Transmission Corporation
CNG Transmission Corporation
Eastern States Oil & Gas, Inc.
Blazer Energy Corp.
Eastern States Oil & Gas, Inc.
Eastern States, Inc.
Equitable Production-Eastern States, Inc.
Equitable Production Company
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 39/524
Unrecorded agreement dated
4/20/1899
DB 233/387
OG 66A/69
Corp. Book 13/151
OG 76A/232
Corp. Book 12/253
Corp. Book 12/259
WV SOS
WV SOS
WV SOS
Corp. Book 13/14

870256

Stone Hill Mineral Holdings, LLC

Harlin Blaine Yeager
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 102A/696
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

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870160

Green Dot Farm, Inc.

Green Dot Farm, Inc.
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 90A/172
OG 124A/9 & 136A/538
OG 138A/54
OG 138A/1
OG 175A/707

1028831

Sondra S. Zuback, et al.

Sondra S. Zuback, widow

EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 202A/760

870694

Emma Jean Bradley, et al.

Emma Jean Bradley
Drilling Appalachian Corporation
Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.

Drilling Appalachian Corporation
Grenadier Energy Partners, LLC
Statoil USA Onshore Properties Inc.
Statoil USA Onshore Properties Inc.
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 107A/305
OG 110A/821 & 135A/356
OG 138A/54
OG 138A/1
OG 175A/707

1041507

Howard Henderson

Howard M. Henderson and Linda S. Henderson,
husband and wife
Antero Resources Corporation

Antero Resources Corporation
EQT Production Company

"at least 1/8th per
WV Code 22-6-8"

OG 206A/870
OG 231A/98

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