

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 103 - 03294 County WETZEL District GRANT  
Quad BIG RUN Pad Name BIG333 Field/Pool Name N/A  
Farm name COASTAL FOREST RESOURCES CO. d/b/a COASTAL TIMBERLANDS CO. Well Number BIG333H12 (516341)  
Operator (as registered with the OOG) EQT Production Company  
Address 625 LIBERTY AVENUE, SUITE 1700 City PITTSBURGH State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,375,114.78 Easting 535,094.39  
Landing Point of Curve Northing 4,374,608.71 Easting 534,464.81  
Bottom Hole Northing 4,375,873.08 Easting 533,913.93

Elevation (ft) 1452' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s) Synthetic Based Mud 12.2 ppg, barium sulfate, salt, lime, organophilic clay, gibsonite, anionic emulsifier, polyamide emulsifier, organic polymeric viscosifier, oil soluble sulfonated surfactant, surfactant, thinner, calcium carbonate, walnut shells, cellulose, blend of deformable latex polymers

Date permit issued 04/26/2019 Date drilling commenced 05/17/2019 Date drilling ceased 6/28/2019  
Date completion activities began 4/24/2020 Date completion activities ceased 5/23/2020  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

RECEIVED  
Office of Oil and Gas

AUG 24 2020

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

WV Department of  
Environmental Protection

Freshwater depth(s) ft 581,753 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 2257,2333,2370,2657 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 743, 883, 919, 1011, 1240, 1333 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
DMH 10/27/20

API 47- 103 - 03294

Farm name COASTAL FOREST RESOURCES CO. d/b/a COASTAL TIMBERLANDS CO.

Well number BIG333H12 (516341)

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	988'	NEW	J-55 54.5#	474'	Y
Coal							
Intermediate 1	12-3/8" & 12-1/4"	9-5/8"	3051'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	13535'	NEW	HPP-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has calculated TOC of 1824' MD, which is greater than 500' TVD above the producing formation. No issues during cement job.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	83	15.6	1.18	98	0	8+
Surface	CLASS A	810	15.6	1.21	980	0	8
Coal							
Intermediate 1	CLASS H	1035	15.6	1.18	1221	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2545	15.2	1.10	2800	1824	8+
Tubing							

Drillers TD (ft) 13548' MD Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 3965' MD

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING CONDUCTOR: NONE

SURFACE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 3892'

RECEIVED  
Office of Oil and Gas

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

AUG 24 2020

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WV Department of  
Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_



**516341 47-103-03293-00-00 Perforations**

<b>Stage Number</b>	<b>Perforation Date</b>	<b>Top Perf Depth (ftKB)</b>	<b>Bottom Perf Depth (ftKB)</b>	<b>Number of Shots</b>	<b>Formation</b>
1	4/24/20 2:13 AM	13,460	13,512	16	MARCELLUS
2	4/24/20 4:56 AM	13,247	13,435	40	MARCELLUS
3	4/24/20 8:46 AM	13,039	13,227	40	MARCELLUS
4	4/24/20 12:21 PM	12,831	13,019	40	MARCELLUS
5	4/24/20 3:57 PM	12,623	12,811	40	MARCELLUS
6	4/24/20 7:44 PM	12,434	12,613	40	MARCELLUS
7	4/24/20 11:12 PM	12,229	12,410	40	MARCELLUS
8	4/25/20 2:33 AM	12,032	12,211	40	MARCELLUS
9	4/25/20 6:05 AM	11,835	12,014	40	MARCELLUS
10	4/25/20 9:34 AM	11,638	11,817	40	MARCELLUS
11	4/25/20 1:20 PM	11,441	11,620	40	MARCELLUS
12	4/25/20 5:03 PM	11,244	11,423	40	MARCELLUS
13	4/25/20 8:28 PM	11,047	11,226	40	MARCELLUS
14	4/25/20 11:37 PM	10,850	11,029	40	MARCELLUS
15	4/26/20 2:45 AM	10,653	10,832	40	MARCELLUS
16	4/26/20 5:55 AM	10,456	10,635	40	MARCELLUS
17	4/26/20 9:18 AM	10,259	10,438	40	MARCELLUS
18	4/26/20 12:41 PM	10,062	10,241	40	MARCELLUS
19	4/26/20 3:51 PM	9,865	10,044	40	MARCELLUS
20	4/26/20 6:57 PM	9,668	9,847	40	MARCELLUS
21	4/26/20 10:02 PM	9,471	9,650	40	MARCELLUS
22	4/27/20 1:05 AM	9,274	9,453	40	MARCELLUS
23	4/27/20 4:08 AM	9,077	9,256	40	MARCELLUS
24	4/27/20 7:14 AM	8,880	9,055	40	MARCELLUS
KP	4/27/20 10:41 AM	8,768	8,770	0	MARCELLUS

RECEIVED  
Office of Oil and Gas

AUG 24 2020

WV Department of  
Environmental Protection

**516341 47-103-03293-00-00 Stimulation Stages**

Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	4/24/20 2:13 AM	98	8415.8	8656.9	4430	177123	4697	0
2	4/24/20 5:48 AM	101	7838.6	8224.3	4867	440123	9872	0
3	4/24/20 9:29 AM	100	7788.5	8000.8	4479	442966	9800	0
4	4/24/20 1:01 PM	100	8002.8	8269.4	4480	440102	9486	0
5	4/24/20 4:49 PM	100	8207.9	8451.5	4830	440295	9785	0
6	4/24/20 8:19 PM	101	8020.8	8227	4960	440371	9943	0
7	4/24/20 11:45 PM	101	8211.2	8409.8	4920	440345	9765	0
8	4/25/20 3:08 AM	100	8228.7	8458.7	4850	440515	9723	0
9	4/25/20 6:49 AM	100	8015.5	8260.1	4475	440042	9696	0
10	4/25/20 10:28 AM	101	8100.7	8338.1	4431	440026	9672	0
11	4/25/20 2:09 PM	100	8123.3	8295.9	4471	440169	9699	0
12	4/25/20 5:45 PM	100	8148.6	8680.4	4800	440899	9733	0
13	4/25/20 8:59 PM	98	8593.3	9397.1	5120	440889	9624	0
14	4/26/20 12:09 AM	101	8196.5	8825.1	5050	442875	9541	0
15	4/26/20 3:12 AM	101	8000.1	8613.8	4970	440914	9722	0
16	4/26/20 6:35 AM	100	7882.8	8427.5	4572	440690	9607	0
17	4/26/20 9:59 AM	100	7850.1	8372	4864	440409	9590	0
18	4/26/20 1:14 PM	100	7900.3	8552.6	5112	440090	9546	0
19	4/26/20 4:25 PM	100	7865.7	8372.4	5210	440366	9551	0
20	4/26/20 7:30 PM	101	7787	8992.3	5050	440500	9526	0
21	4/26/20 10:36 PM	100	7667.8	8431.8	4990	440442	9468	0
22	4/27/20 1:35 AM	101	8038.3	8787.3	5320	440321	9478	0
23	4/27/20 4:42 AM	101	7615.2	8462.5	4391	440278	9505	0
24	4/27/20 7:56 AM	101	7698.4	8247.9	4966	440095	9505	0

RECEIVED  
Office of Oil and Gas

AUG 24 2020

WV Department of  
Environmental Protection

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/24/2020
Job End Date:	4/27/2020
State:	West Virginia
County:	Wetzel
API Number:	47-103-03294-00-00
Operator Name:	EQT Production
Well Name and Number:	BIG333H12(516341)
Latitude:	39.52496531
Longitude:	-80.59168061
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,647
Total Base Water Volume (gal):	9,514,428
Total Base Non Water Volume:	0



### Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	EQT	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.39343	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.47903	None
FR-9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.01387	None
			Petroleum Distillate	64742-47-8	20.00000	0.00925	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00092	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00092	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00046	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	90.00000	0.01285	None
			Glutaraldehyde	111-30-8	20.00000	0.00286	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00043	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00043	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00844	None

RECEIVED  
Office of Oil and Gas

AUG 24 2020

WV Department of  
Environmental Protection



			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	64690-00-1	10.00000	0.00094	None
Hydrochloric Acid (HCl)	FTSI	Acid					
			Hydrogen Chloride	7647-01-0	15.00000	0.00862	None
NEFE-180	Stingray	Acid Inhibitor/Iron Control					
			Acetic Acid	64-19-7	60.00000	0.00011	None
			Methanol	67-56-1	30.00000	0.00006	None
			2-Ethylhexanol	104-76-7	7.50000	0.00001	None
			2-Propyn-1-ol	107-19-7	3.00000	0.00001	None
			Olefin	64743-02-8	3.00000	0.00001	None
			Alcohols, C15-15, ethoxylated	68951-67-7	3.00000	0.00001	None
			Fatty Acids, tall oil	61790-12-3	3.00000	0.00001	None
			Cocunut Oil Acid diethanolamine	68603-42-9	3.00000	0.00001	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Non-hazardous substances	Proprietary	90.00000	0.01285	
			Petroleum Distillate	64742-47-8	20.00000	0.00925	
			Non-hazardous substances	Proprietary	90.00000	0.00844	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00092	
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00092	
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00046	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00043	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00043	
			Methanol	67-56-1	30.00000	0.00006	
			2-Ethylhexanol	104-76-7	7.50000	0.00001	
			Olefin	64743-02-8	3.00000	0.00001	
			Fatty Acids, tall oil	61790-12-3	3.00000	0.00001	
			Cocunut Oil Acid diethanolamine	68603-42-9	3.00000	0.00001	
			2-Propyn-1-ol	107-19-7	3.00000	0.00001	
			Alcohols, C15-15, ethoxylated	68951-67-7	3.00000	0.00001	

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

RECEIVED  
Office of Oil and Gas

AUG 24 2020

WV Department of  
Environmental Protection





WR-35  
Rev. 8/23/13

API 47- 103 - 03294 Farm name COASTAL FOREST RESOURCES CO. d/b/a COASTAL TIMBERLANDS CO. Well number BIG333H12 (516341)

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company Gyrodata Inc.  
Address 73 Noblestown Road City Carnegie State PA Zip 15106

Logging Company Scientific Drilling International  
Address 124 Vista Drive City Charleroi State PA Zip 15022

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
AUG 24 2020  
WV Department of  
Environmental Protection

API # 47-103-03294 Final Formations BIG333H12 (516341)				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
SAND/SHALE	1	1	743	743
WASHINGTON COAL	743	743	745	745
SAND/SHALE	745	745	883	883
WAYNESBURG COAL	883	883	885	885
SAND/SHALE	885	885	919	919
COAL	919	919	920	920
SAND/SHALE	920	920	1011	1011
UNIONTOWN COAL	1011	1011	1012	1012
SAND/SHALE	1012	1012	1240	1240
PITTSBURGH COAL	1240	1240	1245	1245
SAND/SHALE	1245	1245	1333	1332
COAL	1333	1332	1337	1336
SAND/SHALE	1337	1336	2526	2524
BIG LIME	2526	2524	2621	2619
SAND/SHALE	2621	2619	2636	2634
BIG INJUN	2636	2634	2743	2741
SAND/SHALE	2743	2741	2875	2873
WEIR	2875	2873	2992	2990
SAND/SHALE	2992	2990	3285	3283
GANTZ	3285	3283	3340	3338
SAND/SHALE	3340	3338	3381	3379
FIFTY FOOT	3381	3379	3431	3429
SAND/SHALE	3431	3429	3442	3440
THIRTY FOOT	3442	3440	3475	3473
SAND/SHALE	3475	3473	3500	3498
GORDON	3500	3498	3516	3514
SAND/SHALE	3516	3514	3534	3532
FOURTH SAND	3534	3532	3544	3542
SAND/SHALE	3544	3542	3561	3559
FIFTH SAND	3561	3559	3600	3598
SAND/SHALE	3600	3598	3627	3625
BAYARD	3627	3625	3661	3659
SAND/SHALE	3661	3659	4029	4027
SPEECHLEY	4029	4027	4097	4094
SAND/SHALE	4097	4094	4112	4109
BALLTOWN A	4112	4109	4250	4244
SAND/SHALE	4250	4244	5005	4838
RILEY	5005	4838	5064	4883
SAND/SHALE	5064	4883	5570	5269
BENSON	5570	5269	5663	5337
SAND/SHALE	5663	5337	5965	5563
ALEXANDER	5965	5563	6012	5599
ELKS	6012	5599	8097	7186
SONYEA	8097	7186	8299	7349
MIDDLESEX	8299	7349	8366	7398
GENESEE	8366	7398	8493	7482
GENESEO	8493	7482	8536	7507
TULLY	8536	7507	8576	7529
HAMILTON	8576	7529	8796	7614
MARCELLUS	8796	7614	13548	7648

RECEIVED  
Office of Oil and Gas

AUG 24 2020

WV Department of  
Environmental Protection

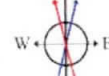


Where energy meets innovation.

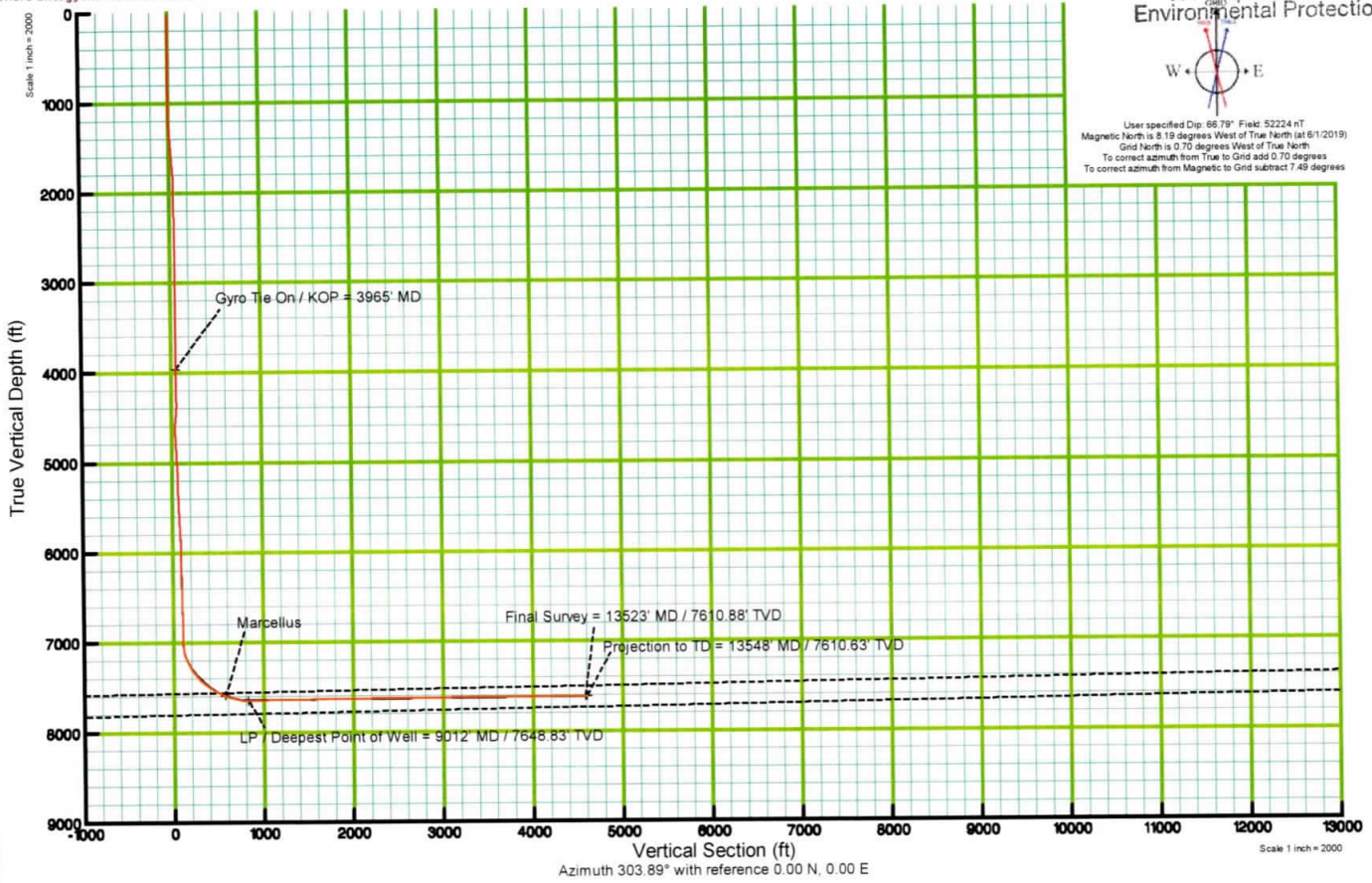
Ground elevation = 1452 ft  
 KB elevation = 1475 ft  
 All measurements are taken from KB elevation

RECEIVED  
 Office of Oil and Gas  
**BAKER**  
 AUG 24 2020  
 a GE company

WV Department of Environmental Protection

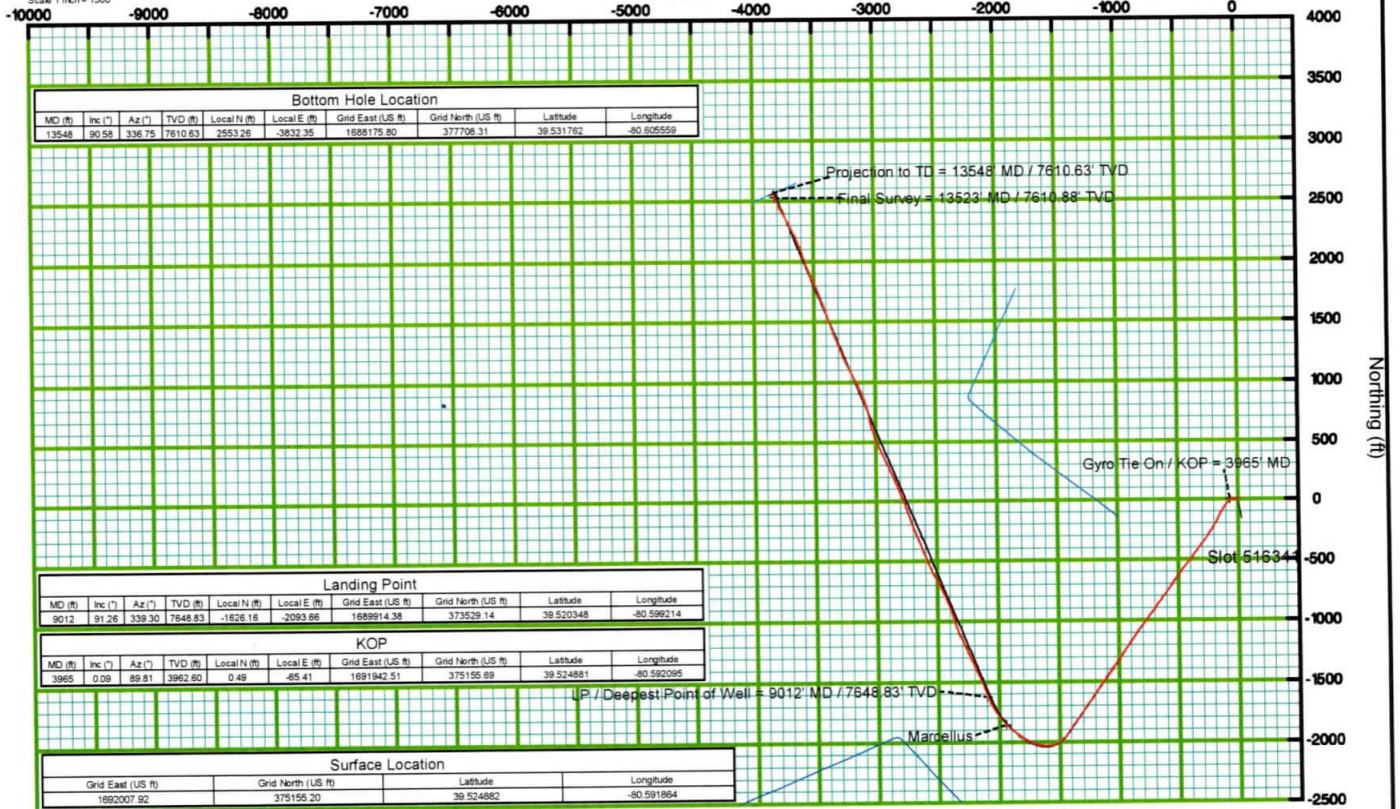


User specified Dip: 86.79° Field: 52224 nT  
 Magnetic North is 8.19 degrees West of True North (at 8/1/2019)  
 Grid North is 0.70 degrees West of True North  
 To correct azimuth from True to Grid add 0.70 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.49 degrees



Scale 1 inch = 1500

Easting (ft)



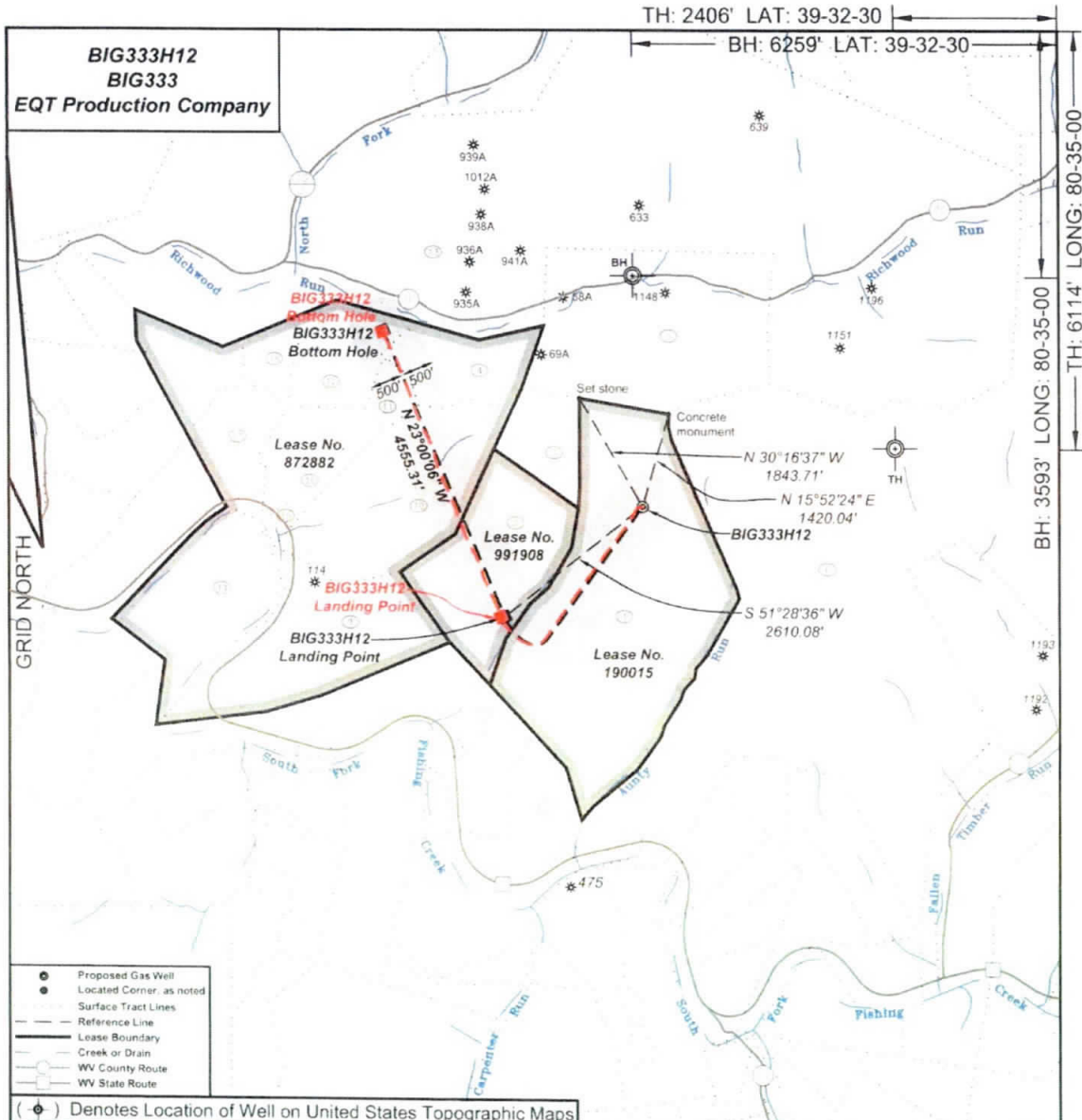
Bottom Hole Location									
MD (ft)	Incl (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
13548	90.58	336.75	7610.63	2583.26	-3832.35	1688175.80	377709.31	39.531762	-80.605559

Landing Point									
MD (ft)	Incl (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
9012	91.26	339.30	7648.83	-1626.16	-2093.86	1688914.38	373529.14	39.520348	-80.599214

KOP									
MD (ft)	Incl (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
3965	0.09	89.91	3962.60	0.49	-65.41	1691942.51	375155.89	39.524881	-80.592095

Surface Location			
Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1692007.92	375155.20	39.524882	-80.591884





RECEIVED  
Office of Oil and Gas  
AUG 24 2020  
WV Department of  
Environmental Protection

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. Saylor*  
P.S. 2092

ALLEGHENY SURVEYS, INC.

NO. 2092  
STATE OF WEST VIRGINIA  
PROFESSIONAL SURVEYOR

FILE NO: 33-15  
DRAWING NO: 33-15 BIG333H12  
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: July 17 20 19  
OPERATOR'S WELL NO: BIG333H12  
API WELL NO: 47 - 103 - 03294  
STATE COUNTY PERMIT

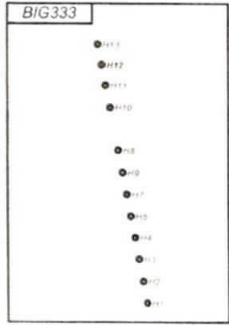
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: As-Built - 1451' WATERSHED: Anty Run of South Fork Fishing Creek QUADRANGLE: Big Run  
DISTRICT: Grant COUNTY: Wetzel  
SURFACE OWNER: Coastal Forest Resources Co., d/b/a Coastal Timberlands Co. ACREAGE: 283.6±  
ROYALTY OWNER: Equitrans, Inc. LEASE NO: 190015 ACREAGE: 285±  
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: 7,643'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Place PO Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330

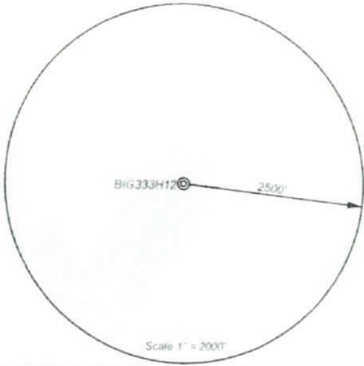
**BIG333H12**  
**BIG333**  
**EQT Production Company**

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	23	13	Wetzel	Grant	Coastal Forest Resources Co.	283.60
2	23	12	Wetzel	Grant	Larry Larue, et al.	104.80
3	23	9	Wetzel	Grant	Larry Larue, et al.	31.80
4	23	4	Wetzel	Grant	Dallison Lumber, Inc.	36.10
5	23	5	Wetzel	Grant	Al Wyatt Heers	174.68
6	23	14	Wetzel	Grant	Richard B. Dallison, et al.	479.30
7	28	8	Wetzel	Grant	Joseph W. Carr	112.90
8	28	8	Wetzel	Grant	Joseph W. Carr	192.74
9	23	11.4	Wetzel	Grant	Richard & Roxanne Funk, et al.	88.21
10	23	8	Wetzel	Grant	Richard & Roxanne Funk, et al.	113.81
11	23	3	Wetzel	Grant	Dallison Lumber, Inc.	15.90
12	23	2	Wetzel	Grant	Billy Dewayne Arnolds, Jr.	38.80
13	17	14	Wetzel	Grant	Coastal Forest Resources Co.	162.80
14	22	44	Wetzel	Grant	Lynne Martyn & Sharon Irwin	66.15
15	23	7	Wetzel	Grant	Marcus E. & Linda S. Denty	3.39
16	23	7.1	Wetzel	Grant	Dallison Lumber, Inc.	49.65
17	23	6	Wetzel	Grant	Dallison Lumber, Inc.	48.82
18	23	1	Wetzel	Grant	Billy Dewayne Arnolds, Jr.	16.90

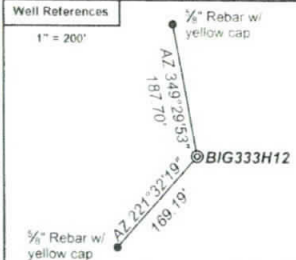
As-Drilled Well Info  
**BIG333H12** coordinates are  
 NAD 27 N: 375,155.21 E: 1,692,007.92  
 NAD 83 UTM N: 4,375,114.78 E: 535,094.39  
**BIG333H13** Landing Point coordinates are  
 NAD 27 N: 373,529.14 E: 1,689,914.38  
 NAD 83 UTM N: 4,374,608.71 E: 534,464.81  
**BIG333H13** Bottom Hole coordinates are  
 NAD 27 N: 377,708.31 E: 1,688,175.80  
 NAD 83 UTM N: 4,375,873.08 E: 533,913.93  
 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.



Lease No.	Acres	Owner
991908	104.8	Brian C. Fox, et al.
872882	4.36	Shiben Estates



- 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. Suter*  
P.S. 2092



FILE NO: 33-15  
 DRAWING NO: 33-15 BIG333H12  
 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: July 17, 20 19  
 OPERATOR'S WELL NO. BIG333H12  
 API WELL NO. 47 - 103 - 03294  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: As-Built - 1451' WATERSHED Aunty Run of South Fork Fishing Creek QUADRANGLE: Big Run  
 DISTRICT: Grant COUNTY: Wetzel  
 SURFACE OWNER: Coastal Forest Resources Co., d/b/a Coastal Timberlands Co. ACREAGE: 283.6±  
 ROYALTY OWNER: Equitrans, Inc. LEASE NO: 190015 ACREAGE: 285±  
 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: 7,643'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Place PO Box 280  
 Canonsburg, PA 15317 Bridgeport, WV 26330

RECEIVED  
 Office of Oil and Gas  
 AUG 24 2020  
 WV Department of Environmental Protection

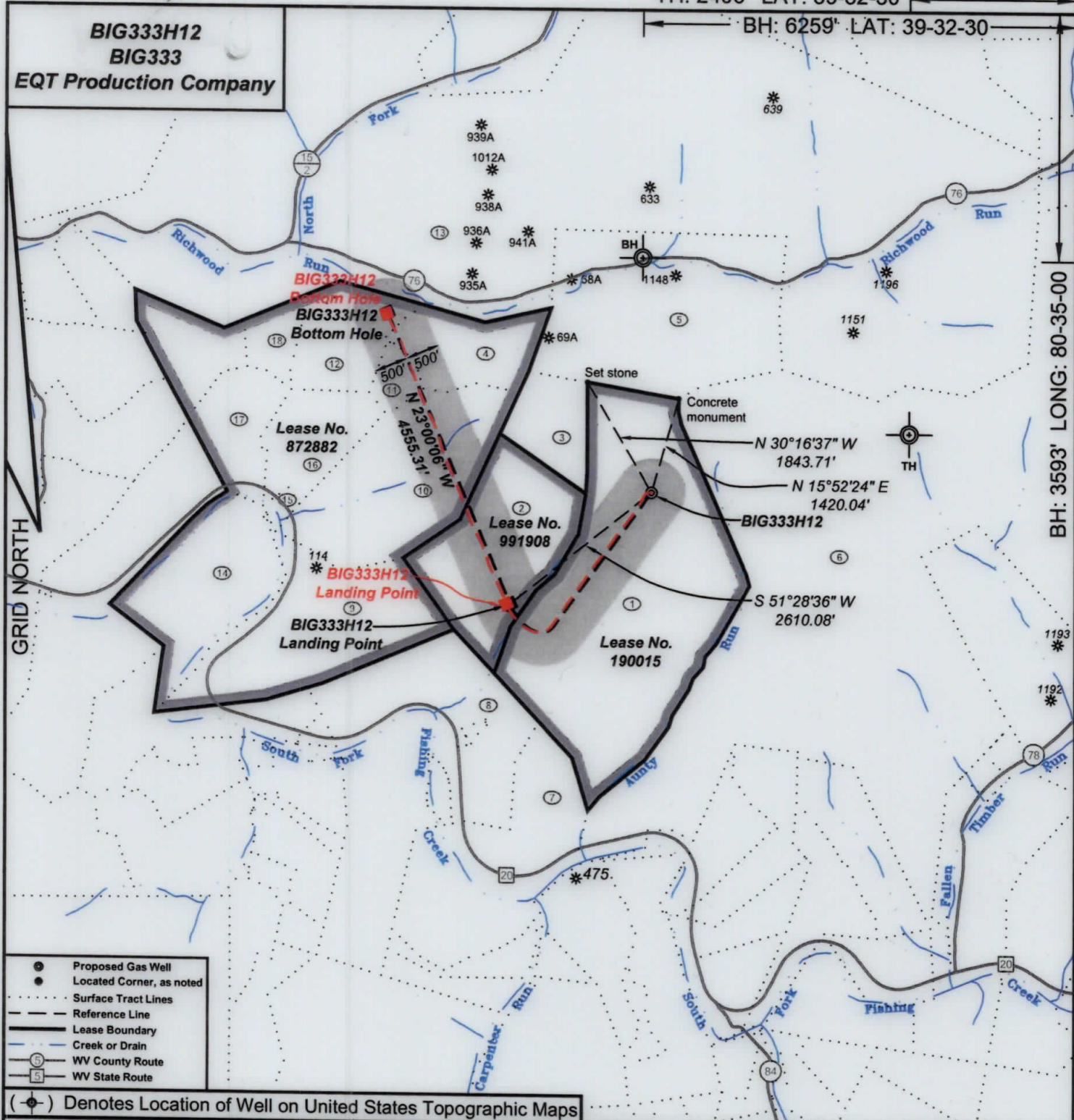


TH: 2406' LAT: 39-32-30

BH: 6259' LAT: 39-32-30

TH: 6114' LONG: 80-35-00

**BIG333H12**  
**BIG333**  
**EQT Production Company**



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

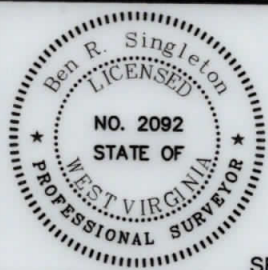
(⊙) Denotes Location of Well on United States Topographic Maps



*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



SEAL

FILE NO: 33-15  
 DRAWING NO: 33-15 BIG333H12  
 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: July 17 20 19  
 OPERATOR'S WELL NO.: BIG333H12  
 API WELL NO  
 47 - 103 - 03294  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: As-Built - 1451' WATERSHED Aunty Run of South Fork Fishing Creek QUADRANGLE: Big Run  
 DISTRICT: Grant COUNTY: Wetzel  
 SURFACE OWNER: Coastal Forest Resources Co., d/b/a Coastal Timberlands Co. ACREAGE: 283.6±  
 ROYALTY OWNER: Equitrans, Inc. LEASE NO: 190015 ACREAGE: 285±  
 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: 7,643'

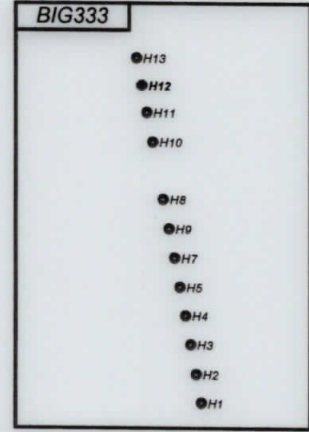
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Place PO Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330



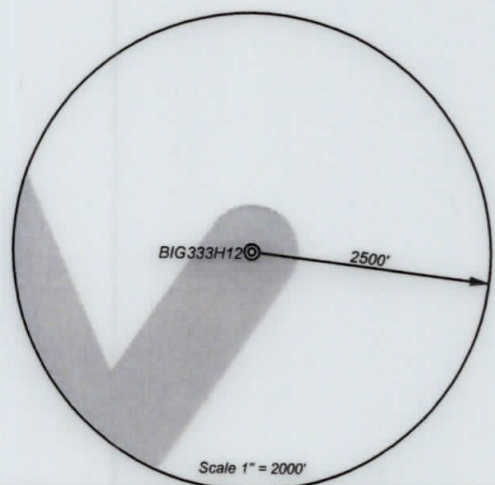
**BIG333H12**  
**BIG333**  
**EQT Production Company**

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	23	13	Wetzel	Grant	Coastal Forest Resources Co.	283.60
2	23	12	Wetzel	Grant	Larry Larew, et al.	104.80
3	23	9	Wetzel	Grant	Larry Larew, et al.	31.50
4	23	4	Wetzel	Grant	Dallison Lumber, Inc.	36.10
5	23	5	Wetzel	Grant	Al Wyatt Heirs	174.68
6	23	14	Wetzel	Grant	Richard B. Dallison, et al.	879.30
7	28	8	Wetzel	Grant	Joseph W. Carlin	112.90
8	28	6	Wetzel	Grant	Joseph W. Carlin	190.74
9	23	11.4	Wetzel	Grant	Richard & Roxanne Funk, et al.	88.21
10	23	8	Wetzel	Grant	Richard & Roxanne Funk, et al.	113.81
11	23	3	Wetzel	Grant	Dallison Lumber, Inc.	15.00
12	23	2	Wetzel	Grant	Billy Dewayne Arnolds, Jr.	38.80
13	17	14	Wetzel	Grant	Coastal Forest Resources Co.	1627.60
14	22	44	Wetzel	Grant	Lydle Martyn & Sharon Irvin	68.15
15	23	7	Wetzel	Grant	Marcus E. & Linda S. Derby	3.19
16	23	7.1	Wetzel	Grant	Dallison Lumber, Inc.	49.65
17	23	6	Wetzel	Grant	Dallison Lumber, Inc.	46.62
18	23	1	Wetzel	Grant	Billy Dewayne Arnolds, Jr.	16.50

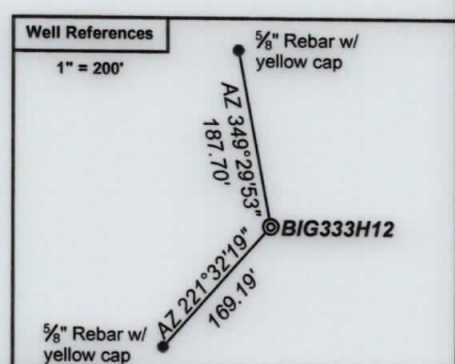
**As-Drilled Well Info:**  
**BIG333H12 coordinates are**  
 NAD 27 N: 375,155.21 E: 1,692,007.92  
 NAD 83 UTM N: 4,375,114.78 E: 535,094.39  
**BIG333H13 Landing Point coordinates are**  
 NAD 27 N: 373,529.14 E: 1,689,914.38  
 NAD 83 UTM N: 4,374,608.71 E: 534,464.81  
**BIG333H13 Bottom Hole coordinates are**  
 NAD 27 N: 377,708.31 E: 1,688,175.80  
 NAD 83 UTM N: 4,375,873.08 E: 533,913.93  
 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.



Lease No.	Acres	Owner
991908	104.8	Brian C. Fox, et al.
872882	436	Shiben Estates



- ⊙ 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



FILE NO: 33-15  
 DRAWING NO: 33-15 BIG333H12  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: July 17 20 19  
 OPERATOR'S WELL NO.: BIG333H12  
 API WELL NO  
 47 - 103 - 03294  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: As-Built - 1451' WATERSHED Aunty Run of South Fork Fishing Creek QUADRANGLE: Big Run  
 DISTRICT: Grant COUNTY: Wetzel

SURFACE OWNER: Coastal Forest Resources Co., d/b/a Coastal Timberlands Co. ACREAGE: 283.6±  
 ROYALTY OWNER: Equitrans, Inc. LEASE NO: 190015 ACREAGE: 285±

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: 7,643'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
 ADDRESS: 2400 Ansys Drive, Suite 200 ADDRESS: 115 Professional Place PO Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330