

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 516848

API: 47 - 103 - 03167

Submission: Initial Amended

Notes: Initial report w/ flowback

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WV Department of
Environmental Protection

02/16/2018

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

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API 47- 103 - 03167 County Wetzel District Grant
Quad Big Run Pad Name BIG 190 Field/Pool Name N/A
Farm name Coastal Forest Resources Co. DBA Coastal Timberlands Co. Well Number 516848
Operator (as registered with the OOG) EQT Production Company
Address 625 Liberty Ave. EQT Plaza, 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 4,378,171.78 Easting 533,887.00
Landing Point of Curve Northing 4,378,330.60 Easting 534,719.72
Bottom Hole Northing 4,380,240.13 Easting 534,085.87

Elevation (ft) 1474 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) Water Base Mud 14.3 ppg, aliphatic based non-aqueous drilling fluid, barium sulfate, calcium chloride, organophylic clay, quaternary ammonium clay, gilsonite, blended emulsifier, wetting agent, blended graphite, hydrated lime, calcium carbonate, ground walnut shells, fibrous cellulose.

Date permit issued 01/09/2017 Date drilling commenced 03/12/2017 Date drilling ceased 07/10/2017
Date completion activities began 8/13/2017 Date completion activities ceased 8/23/2017
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 88', 391', 507' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2233', 2358' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 737', 860', 1051', 1202' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by:

DAH
02/16/2018

API 47-103 - 03167 Farm name Coastal Forest Resources Co. DBA Coastal Timberlands Co. Well number 516848

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"	1285'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8" & 12-1/4"	9-5/8"	2728'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	15506'	NEW	P-100 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has calculated TOC of 6620' MD, which is greater than 500' TVD above the producing formation. No issues during cement job

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CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WV Department of Environmental Protection WOC (hrs)
Conductor	CLASS A	49	15.6	1.18	56	0	8
Surface	CLASS A	1125	15.8	1.18	1328	0	8
Coal							
Intermediate 1	Class A	1000	15.6	1.18	1180	0	8
Intermediate 2							
Intermediate 3							
Production	Class H / Class H	240 / 835	15.2 / 15.6	1.16 / 2.10	2032	6620'	8
Tubing							

Drillers TD (ft) 15518' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 2896' 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 1 : ON SHOE TRACK AND EVERY 500' FEET TO SURFACE
 PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 2792'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 103 - 03167 Farm name Coastal Forest Resources Co. DBA Coastal Timberlands Co. Well number 516848

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company _____
Address _____ City _____ State _____ Zip _____

Logging Company Pro Directional
Address 750 Conroe Park North Dr. City Conroe State TX Zip 77303

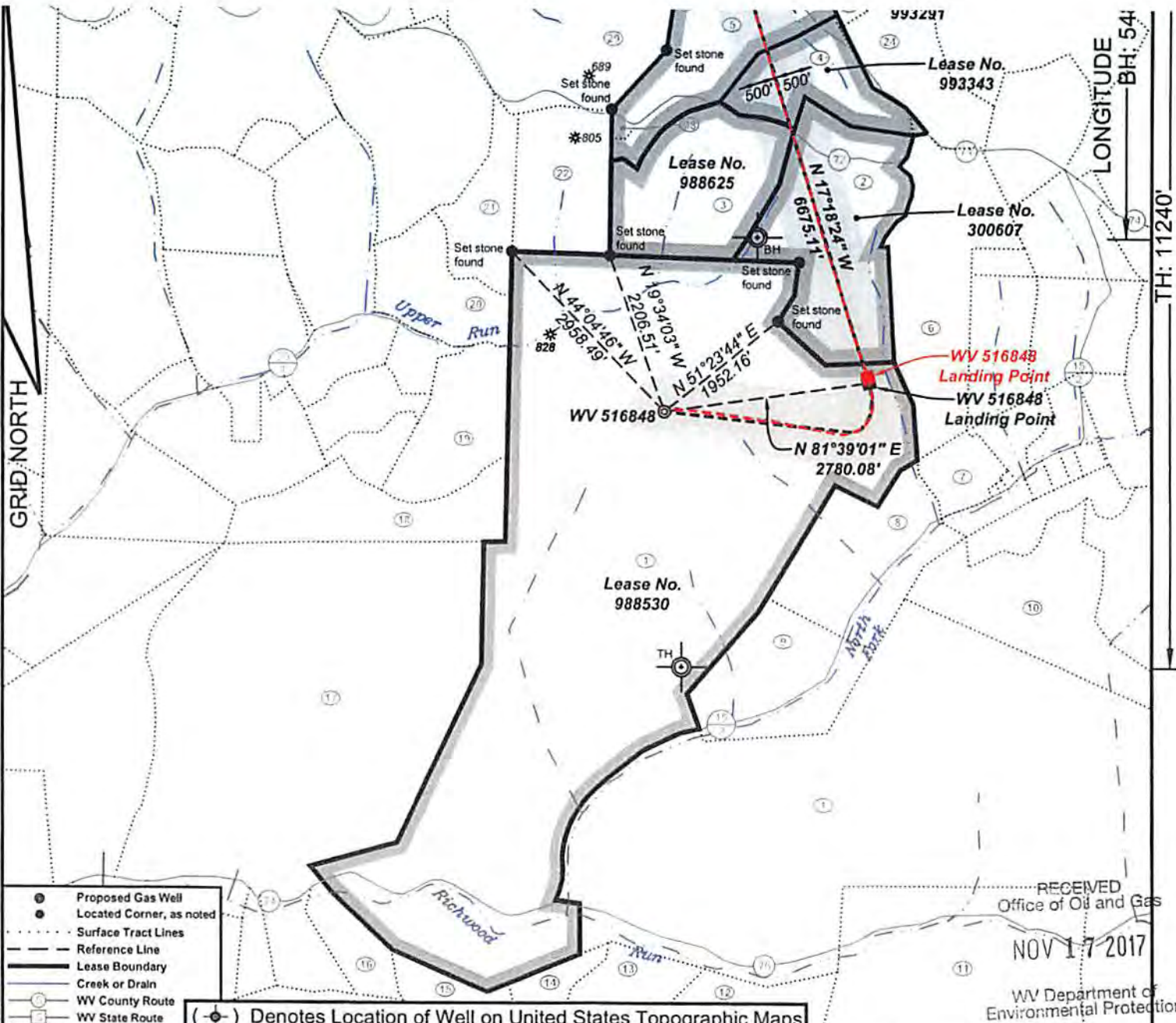
Cementing Company _____
Address _____ City _____ State _____ Zip _____

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Final Formations Well# 516848 API# 47-103-03167				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
SAND/SHALE	1	1	740	740
WASHINGTON COAL	737	737	740	740
SAND/SHALE	740	740	860	860
WAYNESBURG COAL	860	860	862	862
SAND/SHALE	862	862	1051	1051
COAL	1051	1051	1056	1056
SAND/SHALE	1056	1056	1202	1202
PITTSBURGH COAL	1202	1202	1208	1208
SAND/SHALE	1208	1208	2265	2262
MAXTON	2265	2262	2343	2340
SAND/SHALE	2343	2340	2421	2418
BIG LIME	2421	2418	2535	2532
SAND/SHALE	2535	2532	2550	2547
BIG INJUN	2550	2547	2656	2652
SAND/SHALE	2656	2652	2827	2823
WEIR	2827	2823	2920	2915
SAND/SHALE	2920	2915	3039	3034
GANTZ	3039	3034	3086	3081
SAND/SHALE	3086	3081	3147	3142
SOF	3147	3142	3164	3159
SAND/SHALE	3164	3159	3178	3173
THIRTY FOOT	3178	3173	3226	3221
SAND/SHALE	3226	3221	3258	3253
GORDON	3258	3253	3303	3298
SAND/SHALE	3303	3298	3344	3338
FOURTH SAND	3344	3338	3359	3353
SAND/SHALE	3359	3353	3460	3453
BAYARD	3460	3453	3477	3469
SAND/SHALE	3477	3469	3879	3833
WARREN	3879	3833	3973	3907
SAND/SHALE	3973	3907	4080	3993
SPEECHLEY	4080	3993	4102	4011
SAND/SHALE	4102	4011	4178	4074
BALLTOWN A	4178	4074	4394	4248
SAND/SHALE	4394	4248	4825	4593
RILEY	4825	4593	4843	4608
SAND/SHALE	4843	4608	5552	5183
BENSON	5552	5183	5618	5234
SAND/SHALE	5618	5234	6494	5938
ALEXANDER	6494	5938	6543	5978
ELKS	6543	5978	8013	7167
SONYEA	8013	7167	8168	7287
MIDDLESEX	8168	7287	8277	7363
GENESEE	8277	7363	8400	7436
GENESEO	8400	7436	8446	7462
TULLY	8446	7462	8490	7484
HAMILTON	8490	7484	8737	7570
MARCELLUS	8737	7570	15518	7529

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

(-○-) Denotes Location of Well on United States Topographic Maps

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Ben R. Singleton
P.S. 2092



FILE NO: 196-34-G-10
DRAWING NO: 196-10 Big 190 H20
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 19 20 17
OPERATOR'S WELL NO.: 516848
API WELL NO
47 - 103 -
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1473.5' (As-built) WATERSHED Upper Run and North Fork QUADRANGLE: Big Run
DISTRICT: Grant COUNTY: Wetzel
SURFACE OWNER: Coastal Forest Resources Company d/b/a Coastal Timberlands Company ACREAGE: 62.135
ROYALTY OWNER: Mills-Wetzel Land, Inc. LEASE NO: 988530 ACREAGE: 659
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

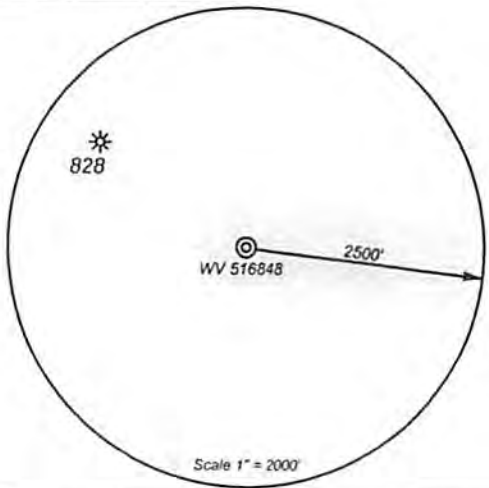
02/13/2018

3	12	47	Wetzel	Grant	Coastal Forest Resources Co.	87.50
4	13	35	Wetzel	Grant	Jennie B. Goddard, et al.	50.00
5	12	43	Wetzel	Grant	Jennie B. Goddard, et al.	74.50
6	18	1	Wetzel	Grant	McKinley E. Calvert Heirs	100.00
7	18	14	Wetzel	Grant	Frank M. & Frankie L. Dulaney	9.55
8	18	13	Wetzel	Grant	Ralph G. Dulaney	87.50
9	18	17	Wetzel	Grant	Alan D. & Diana L. Barr	13.00
10	18	22	Wetzel	Grant	Karen R. Dennison, et al.	111.40
11	23	5	Wetzel	Grant	Thomas E. Wyatt, et al.	174.68
12	23	4	Wetzel	Grant	Dallison Lumber Inc.	36.10
13	23	2	Wetzel	Grant	Billy D. Arnolds, Jr.	38.80
14	23	1	Wetzel	Grant	Billy D. Arnolds, Jr.	16.50
15	22	27	Wetzel	Grant	Dallison Lumber Inc.	31.35
16	22	13	Wetzel	Grant	James Jones, et al.	16.75
17	17	16	Wetzel	Grant	David A. Arnolds	402.61
18	17	13	Wetzel	Grant	David A. Arnolds	62.25
19	17	12	Wetzel	Grant	Rhonda K. Spencer	57.20
20	17	4	Wetzel	Grant	George W. Cain	42.60
21	12	45	Wetzel	Grant	Jimmy L. & James C. Yoho	44.10
22	12	46	Wetzel	Grant	Jimmy L. & James C. Yoho	56.10
23	12	49	Wetzel	Grant	George W. Cain	1.00
24	13	36	Wetzel	Grant	Sara Miller, et al.	49.00
25	13	28	Wetzel	Grant	Kenneth D. Eiford	4.59
26	13	29	Wetzel	Grant	Kenneth D. Eiford	17.50
27	13	19	Wetzel	Grant	Larry D. & Mary A. Huggins	19.25
28	12	35	Wetzel	Grant	H. G. Kirkpatrick Est	49.50
29	12	42	Wetzel	Grant	Jimmy L. & James C. Yoho	103.30
30	12	34	Wetzel	Grant	HFP LLC	75.28
31	12	21	Wetzel	Grant	John Laws, et al.	11.50
32	12	22	Wetzel	Grant	Esther Ruth Coen	51.60

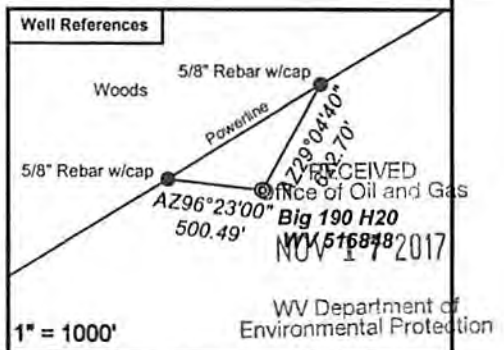
WV 516848 Bottom Hole coordinates are
 NAD 27 N: 392,028.99 E: 1,688,978.53
 NAD 83 UTM N: 4,380,240.13 E: 534,085.87
 West Virginia Coordinate system of 1927 (North Zone)
 based upon Differential GPS Measurements.
 Plat orientation, corner and well ties are based upon
 the grid north meridian.
 Well location references are based upon the grid north
 meridian.
 UTM coordinates are NAD83, Zone 17, Meters.

Big 190	
H22, 516850	●
H21, 516849	●
H20, 516848	● 47-103-03109
H19, 516847	●
47-103-02727	● 47-103-03020
47-103-02728	● 47-103-03021
47-103-02729	● 47-103-03022
47-103-02730	● 47-103-03023
47-103-02731	●
47-103-02732	●
47-103-02733	●
47-103-02734	●
47-103-02735	●
47-103-02736	●
47-103-02856	●

Lease No.	Acres	Owner
300607	99	ET Blue Grass LLC, et al.
988625	87.5	Jeffrey Scott Cozart, et al.
993343	50	Mary R. Huggins, et al.
993291	74.5	Mary Margaret Price & James G. Price, et al.
994536	49.5	Gary Leigh Wright, et al.



- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
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SEAL

FILE NO: 196-34-G-10
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 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
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 OIL AND GAS DIVISION

DATE: July 19 20 17
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 API WELL NO
 47 - 103 -
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1473.5' (As-built) WATERSHED Upper Run and North Fork QUADRANGLE: Big Run
 DISTRICT: Grant COUNTY: Wetzel
 SURFACE OWNER: Coastal Forest Resources Company d/b/a Coastal Timberlands Company ACREAGE: 168.5
 ROYALTY OWNER: Mills-Wetzel Land, Inc. LEASE NO: 988530 ACREAGE: 659
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

02/16/2018

516848 47-103-03167-0000 - Stimulated 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)
Initiation Sleeve								0
1	8/13/2017	97	9,034	9,167	4,225	450,580	8,241	0
2	8/13/2017	100	8,941	9,208	4,682	454,540	8,767	0
3	8/14/2017	99	8,917	9,428	4,718	450,040	7,739	0
4	8/14/2017	94	8,971	9,424	4,733	450,540	8,489	0
5	8/14/2017	99	8,897	9,363	4,793	450,140	7,914	0
6	8/15/2017	99	8,825	9,246	4,905	450,420	7,662	0
7	8/15/2017	96	8,777	8,966	4,760	450,620	7,608	0
8	8/15/2017	100	8,913	9,204	4,962	450,100	7,728	0
9	8/16/2017	99	8,918	9,273	5,199	452,400	7,771	0
10	8/16/2017	95	8,963	9,389	4,937	450,260	7,655	0
11	8/16/2017	100	8,895	9,217	4,722	449,400	7,564	0
12	8/17/2017	99	8,855	9,388	4,549	448,400	7,665	0
13	8/17/2017	99	8,806	9,323	4,730	450,620	9,547	0
14	8/17/2017	99	8,860	9,227	4,624	450,040	7,580	0
15	8/18/2017	96	8,798	9,272	4,412	450,780	7,641	0
16	8/18/2017	96	8,742	9,389	4,534	450,660	7,434	0
17	8/18/2017	99	8,907	9,249	4,444	449,680	7,430	0
18	8/19/2017	100	8,471	8,918	4,745	450,140	7,612	0
19	8/19/2017	100	8,527	8,776	4,681	450,060	7,646	0
20	8/19/2017	100	8,459	8,754	4,461	450,200	7,429	0
21	8/20/2017	100	8,347	9,112	4,567	450,200	7,271	0
22	8/20/2017	100	8,457	8,730	4,599	450,640	7,407	0
23	8/20/2017	100	8,427	8,720	4,475	449,300	7,268	0
24	8/21/2017	99	8,261	8,939	4,342	450,160	7,259	0
25	8/21/2017	100	8,277	8,801	4,553	450,220	7,182	0
26	8/21/2017	100	8,218	8,823	4,502	449,960	7,248	0
27	8/22/2017	100	8,212	8,954	4,428	449,880	7,324	0
28	8/22/2017	100	8,334	8,587	4,687	450,040	7,271	0
29	8/22/2017	98	8,545	9,333	4,444	449,700	7,424	0
30	8/22/2017	100	8,349	9,258	4,673	449,880	7,230	0
31	8/23/2017	100	8,299	8,937	4,592	449,700	7,794	0
32	8/23/2017	100	8,201	8,793	4,670	450,000	7,837	0
33	8/23/2017	101	7,875	8,808	4,829	450,740	7,517	0
34	8/23/2017	100	8,108	9,199	4,428	449,560	7,114	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/13/2017
Job End Date:	8/23/2017
State:	West Virginia
County:	Wetzel
API Number:	47-103-03167-00-00
Operator Name:	EQT Production
Well Name and Number:	516848
Latitude:	39.55247600
Longitude:	-80.60575700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,570
Total Base Water Volume (gal):	10,931,256
Total Base Non Water Volume:	0

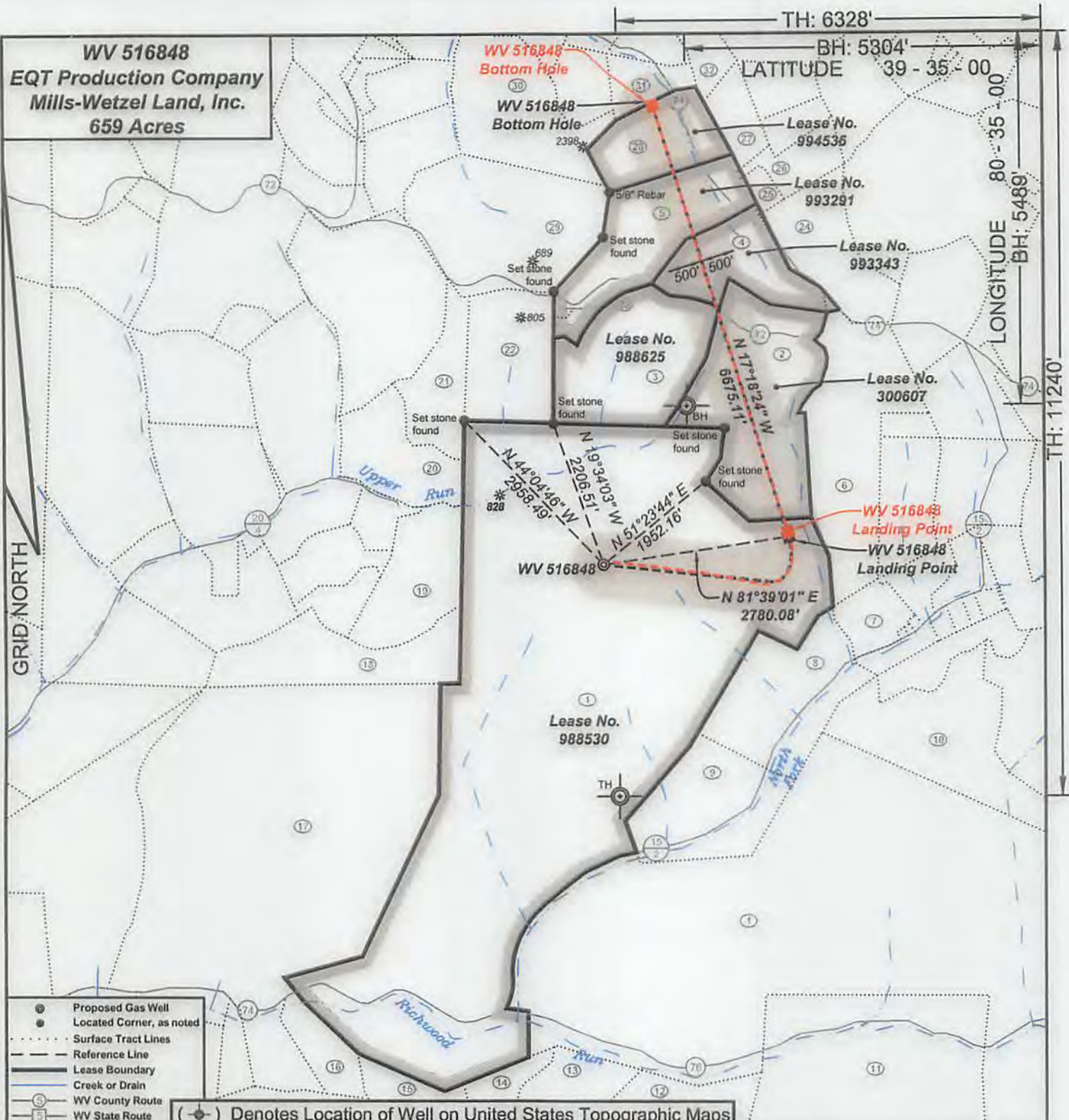


Hydraulic Fracturing Fluid Composition:

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	Keane	Carrier/Base Fluid	Water	7732-18-5	100.00000	85.36494	None
			Sand (Proppant)	Keane	Proppant	Silica Substrate	14808-60-7
KFR-23	Keane	Friction Reducer	Water			7732-18-5	50.00000
			Distillates (petroleum), hydrotreated light	64742-47-8	20.00000	0.01353	None
			copolymer of 2-propenamide	69418-26-4	20.00000	0.01353	None
			oleic acid diethanolamide	93-83-4	2.00000	0.00135	None
			alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00135	None
MC MX 5-3886	Multi-Chem Group	Specialty Brine	Calcium nitrate.4H2O	13477-34-4	100.00000	0.06122	None
Hydrochloric Acid (15%)	Keane	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.02339	None
			Methanol	67-56-1	30.00000	0.00631	None
KSI-19	Keane	Scale Inhibitor					
KWG-111L	Keane	Gel					

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WV 516848
EQT Production Company
Mills-Wetzel Land, Inc.
659 Acres



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



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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 7,572

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330

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EQT Production Company
Mills-Wetzel Land, Inc.
659 Acres

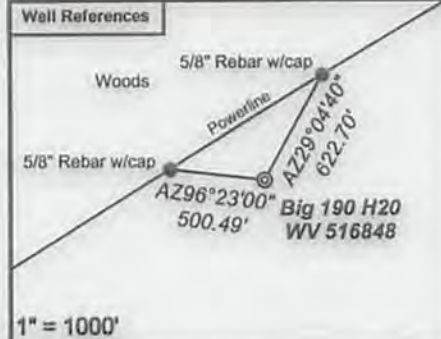
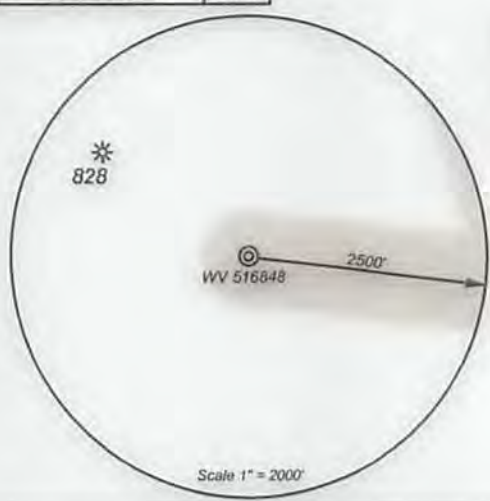
As-Drilled Well Information:
WV 516848 coordinates are
 NAD 27 N: 385,252.77 E: 1,688,213.00
 NAD 83 UTM N: 4,378,171.78 E: 533,887.00
WV 516848 Landing Point coordinates are
 NAD 27 N: 385,728.25 E: 1,690,954.16
 NAD 83 UTM N: 4,378,330.60 E: 534,719.72
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 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.
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Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	17	14	Wetzel	Grant	Coastal Forest Resources Co.	1627.60
2	13	46	Wetzel	Grant	Burl Henthorn Est, et al.	99.00
3	12	47	Wetzel	Grant	Coastal Forest Resources Co.	87.50
4	13	35	Wetzel	Grant	Jennie B. Goddard, et al.	50.00
5	12	43	Wetzel	Grant	Jennie B. Goddard, et al.	74.50
6	18	1	Wetzel	Grant	McKinley E. Calvert Heirs	100.00
7	18	14	Wetzel	Grant	Frank M. & Frankie L. Dulaney	9.55
8	18	13	Wetzel	Grant	Ralph G. Dulaney	87.50
9	18	17	Wetzel	Grant	Alan D. & Digna L. Barr	13.00
10	18	22	Wetzel	Grant	Karen R. Dennison, et al.	111.40
11	23	5	Wetzel	Grant	Thomas E. Wyatt, et al.	174.68
12	23	4	Wetzel	Grant	Dallison Lumber Inc.	36.10
13	23	2	Wetzel	Grant	Billy D. Arnolds, Jr.	38.80
14	23	1	Wetzel	Grant	Billy D. Arnolds, Jr.	16.50
15	22	27	Wetzel	Grant	Dallison Lumber Inc.	31.35
16	22	13	Wetzel	Grant	James Jones, et al.	16.75
17	17	16	Wetzel	Grant	David A. Arnolds	402.61
18	17	13	Wetzel	Grant	David A. Arnolds	62.25
19	17	12	Wetzel	Grant	Rhonda K. Spencer	57.20
20	17	4	Wetzel	Grant	George W. Cain	42.60
21	12	45	Wetzel	Grant	Jimmy L. & James C. Yoho	44.10
22	12	46	Wetzel	Grant	Jimmy L. & James C. Yoho	56.10
23	12	49	Wetzel	Grant	George W. Cain	1.00
24	13	36	Wetzel	Grant	Sara Miller, et al.	49.00
25	13	28	Wetzel	Grant	Kenneth D. Eiford	4.59
26	13	29	Wetzel	Grant	Kenneth D. Eiford	17.50
27	13	19	Wetzel	Grant	Larry D. & Mary A. Huggins	19.25
28	12	35	Wetzel	Grant	H. G. Kirkpatrick Est	49.50
29	12	42	Wetzel	Grant	Jimmy L. & James C. Yoho	103.30
30	12	34	Wetzel	Grant	HFP LLC	75.28
31	12	21	Wetzel	Grant	John Laws, et al.	11.50
32	12	22	Wetzel	Grant	Esther Ruth Coen	51.60

Big 190

H22, 516850	●
H21, 516849	●
H20, 516848	● 47-103-03109
H19, 516847	●
47-103-02727	● 47-103-03020
47-103-02728	● 47-103-03021
47-103-02729	● 47-103-03022
47-103-02730	● 47-103-03023
47-103-02731	●
47-103-02732	●
47-103-02733	●
47-103-02734	●
47-103-02735	●
47-103-02736	●
47-103-02856	●

Lease No.	Acres	Owner
300607	99	ET Blue Grass LLC, et al.
988625	87.5	Jeffrey Scott Cozart, et al.
993343	50	Mary R. Huggins, et al.
993291	74.5	Mary Margaret Price & James G. Price, et al.
994536	49.5	Gary Leigh Wright, et al.



- 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: 196-34-G-10
 DRAWING NO: 196-10 Big 190 H20
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: July 19 20 17
 OPERATOR'S WELL NO.: 516848
 API WELL NO
 47 - 103 - 03107
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1473.5' (As-built) WATERSHED Upper Run and North Fork QUADRANGLE: Big Run
 DISTRICT: Grant COUNTY: Wetzel
 SURFACE OWNER: Coastal Forest Resources Company d/b/a Coastal Timberlands Company ACREAGE: 621.48
 ROYALTY OWNER: Mills-Wetzel Land, Inc. LEASE NO: 988530 ACREAGE: 659
 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: 7,572

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330