

Well Operator's Report of Well Work



Well Number: LIT53 11H (675544)

API: 47 - 103 - 03359

Submission:  Initial  Amended

Notes:

RECEIVED  
Office of Oil and Gas  
APR 28 2022  
WV Department of  
Environmental Protection

Reviewed

*Tennett Reynolds* 8-22-2022

09/09/2022

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

API 47-103-03359 County Wetzel District Center  
Quad Littleton Pad Name Prine Field/Pool Name N/A  
Farm name Howard M. Henderson Well Number LIT53 11H (675544)  
Operator (as registered with the OOG) EQT Production Company  
Address 2400 Ansys Drive, Suite 200 City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,391,208.78 Easting 536,559.50  
Landing Point of Curve Northing 4,391,888.09 Easting 537,102.51  
Bottom Hole Northing 4,394,382.98 Easting 534,515.37

Elevation (ft) 1336' 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 Oil Based Mud 14.25 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

8-36-2020  
Date permit issued 03/03/2021 Date drilling commenced 11/02/2020 Date drilling ceased 04/30/2021  
Date completion activities began 10/05/2021 Date completion activities ceased 02/02/2022  
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 134 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1967,2101 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 833,1062,1171 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by: \_\_\_\_\_

09/09/2022

API 47- 103 03359 Farm name Howard M. Henderson Well number LIT53 11H (675544)

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	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"	1311'	NEW	J-55 54.5#	804'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2868'	NEW	P-110 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	20,534'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1383' GL, 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 (GL)	WOC (hrs)
Conductor	CLASS A	83	15.6	1.18	98	0	8+
Surface	CLASS A	1096	16.0	1.13	1238	0	8
Coal							
Intermediate 1	CLASS A	924	15.6	1.18	1090	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3960	15.2	1.15	4554	1383	8+
Tubing							

Drillers TD (ft) 20,554' Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 2823'

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' TO SURFACE \_\_\_\_\_  
 INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE \_\_\_\_\_  
 PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 2158' \_\_\_\_\_

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 - 03359

Farm name Howard M. Henderson

Well number LIT53 11H (675544)

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

SEE ATTACHED TABLES

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations 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)

Please insert additional pages as applicable.

SEE ATTACHED TABLES

09/09/2022

API 47- 103 - 03359 Farm name Howard M. Henderson Well number LIT53 11H (675544)

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas 8865.777 mcfpd Oil 0 bpd NGL 0 bpd Water 0 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI (Rig 292)  
Address 207 Carlton Dr City Eighty Four State PA Zip 15330

Logging Company Baker Hughes  
Address 400 Technology Dr Suite 100 City Canonsburg State PA Zip 15317

Cementing Company Halliburton  
Address 121 Champion Way Suite 110 City Canonsburg State PA Zip 15317

Cementing Company Universal Pressure Pumping, Inc.  
Address 13549 S. Moisertown Road City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone 724-575-5475  
Signature [Signature] Title Director of Completions Date 2022-04-10

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47- 103 - 03359 Farm name Howard M. Henderson Well number LIT53 11H (675544)

Drilling Contractor Falcon (Rig 25)  
Address 1120 US-119 City Indiana State PA Zip 15701

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

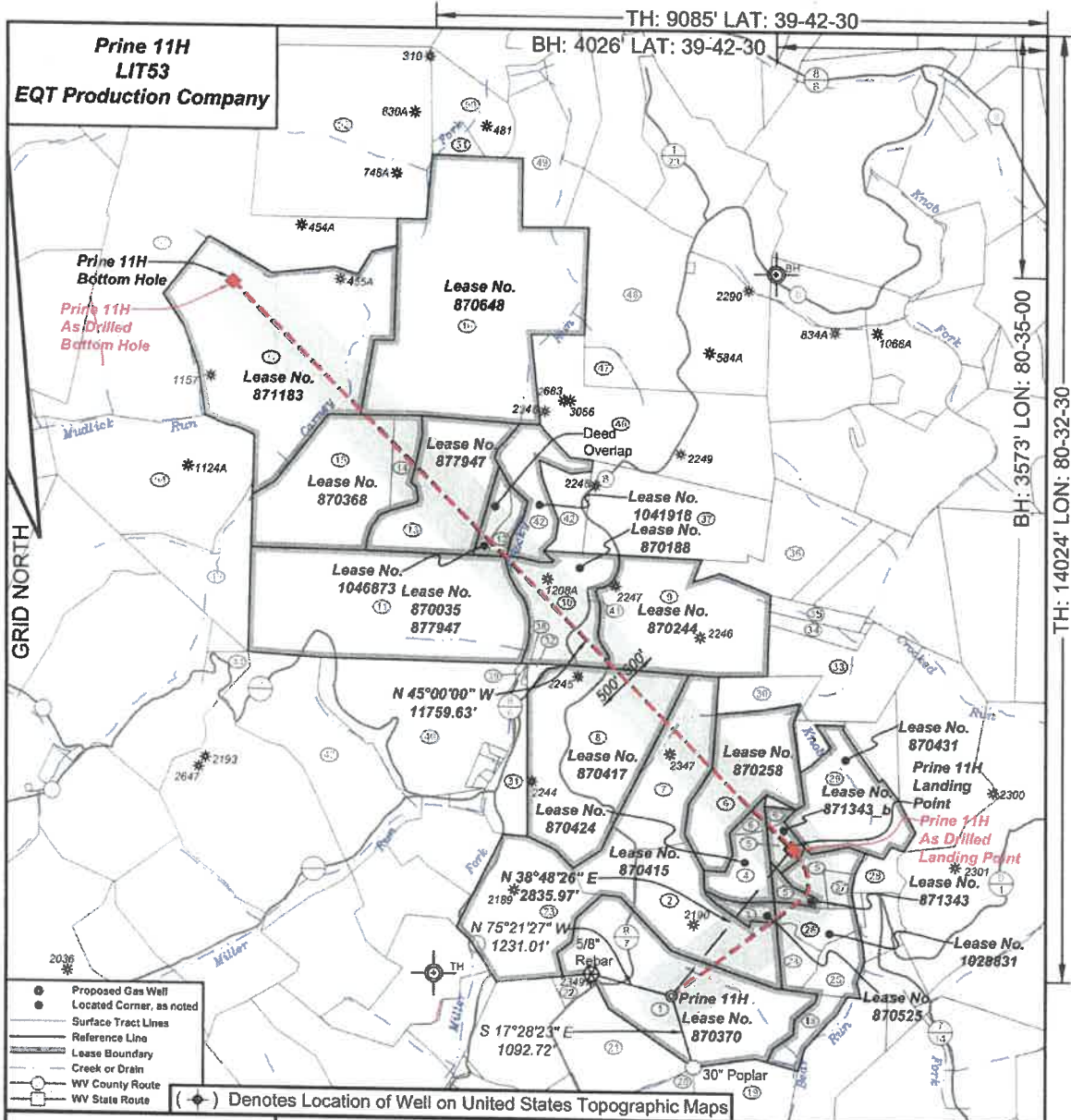
Logging Company GyroData  
Address 73 Noblestown Road City Carnegie State PA Zip 15106

Stimulating Company Evolution Well Services  
Address 1780 Hughes Landing Blvd City The Woodlands State TX Zip 77380

Well # Prine 11H (675544) Final Formations API# 47-103-03359				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	828	828
Waynesburg	828	828	831	831
Sand/Shale	831	831	1,054	1,054
Sewickley	1,054	1,054	1,057	1,057
Sand/Shale	1,057	1,057	1,154	1,154
Pittsburgh	1,154	1,154	1,160	1,160
Sand/Shale	1,160	1,160	2,412	2,412
Big Lime	2,412	2,412	2,523	2,523
Big Injun	2,523	2,523	2,790	2,790
Weir	2,790	2,790	3,190	3,190
Gordon	3,190	3,190	3,407	3,405
Baynard	3,407	3,405	5,846	5,494
Alexander	5,846	5,494	6,289	5,834
Elks	6,289	5,834	7,838	7,035
Sonyea	7,838	7,035	8,052	7,195
Middlesex	8,052	7,195	8,110	7,235
Genesee	8,110	7,235	8,238	7,317
Geneseo	8,238	7,317	8,277	7,339
Tully	8,277	7,339	8,323	7,364
Hamilton	8,323	7,364	8,582	7,465
Marcellus	8,582	7,465	20,554	7,498

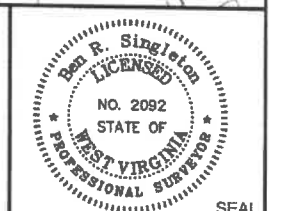
09/09/2022





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: 289-16  
DRAWING NO: Prine 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: May 03 20 21  
OPERATOR'S WELL NO.: Prine 11H  
API WELL NO  
47 - 103 - 03359  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1335' WATERSHED Tributary of Bear Run QUADRANGLE: Littleton  
DISTRICT: Center COUNTY: Wetzel  
SURFACE OWNER: Howard M. Henderson ACREAGE: 112  
ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACREAGE: 111  
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: 7,489'

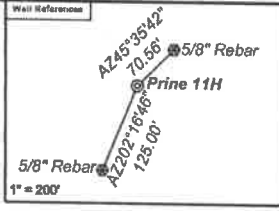
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow  
ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280  
Canonsburg, PA 15317 Bridgeport, WV 26330

09/09/2022



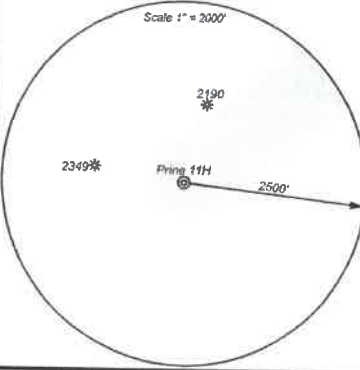
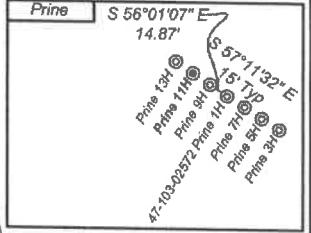
**Prine 11H  
LIT53  
EQT Production Company**

Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	43	Wetzel	Center	Howard M. Henderson	112.00
2	8	44	Wetzel	Center	William D. Henderson	95.00
3	8	45	Wetzel	Center	Howard Henderson	5.50
4	8	31.1	Wetzel	Center	Howard Henderson	18.43
5	8	53	Wetzel	Center	Ashley Murphy, et al	20.38
6	8	31	Wetzel	Center	Howard Henderson	04.78
7	8	29	Wetzel	Center	Howard M. & William D. Henderson	57.00
8	8	28	Wetzel	Center	Matthew J. Rice	108.00
9	8	11	Wetzel	Center	Howard M. Henderson	91.30
10	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wight	87.00
11	8	7	Wetzel	Center	EQT Production Company	150.00
12	8	3.1	Wetzel	Center	Delison Lumber Inc.	15.68
13	8	2	Wetzel	Center	EQT Production Company	72.43
14	5	24	Wetzel	Center	EQT Production Company	12.80
15	5	1	Wetzel	Center	EQT Production Company	81.50
16	6	15	Wetzel	Center	Howard M. Henderson	320.00
17	5	23	Wetzel	Center	Robert Long, et al	172.50
18	11	9	Wetzel	Center	Howard M. Henderson	10.10
19	11	8	Wetzel	Center	Jamies U. & Margie L. Montgomery	52.00
20	11	0.1	Wetzel	Center	Larry L. & Lela J. Doem	94.50
21	11	6	Wetzel	Center	Ray S. & Tammy R. Egan	90.50
22	11	0.2	Wetzel	Center	Roger L. & Sandra K. Wade	4.00
23	8	42	Wetzel	Center	Jeffrey P. & Howard M. Henderson	87.00
24	8	55	Wetzel	Center	Ashley Murphy, et al	9.43
25	8	47	Wetzel	Center	Howard M. Henderson	14.75
26	8	46	Wetzel	Center	Howard M. Henderson	13.20
27	8	62	Wetzel	Center	Ashley Murphy, et al	3.35
28	8	31	Wetzel	Clay	Howard M. Henderson	8.23
29	8	59	Wetzel	Center	Ashley Murphy, et al	47.23
30	8	39	Wetzel	Center	Howard M. Henderson	15.00
31	8	24	Wetzel	Center	Charles P. & Frances P. Viade	19.44
32	8	27	Wetzel	Center	Evan H. & Janet L. Backinger	1.00
33	8	12	Wetzel	Center	Howard Henderson	42.65
34	8	13	Wetzel	Center	Howard M. Henderson	9.50
35	8	14	Wetzel	Center	Howard M. Henderson	9.50
36	8	5	Wetzel	Center	Howard Henderson	38.00
37	8	4	Wetzel	Center	Howard M. Henderson	99.23
38	8	28	Wetzel	Center	Evan H. & Janet L. Backinger	0.25
39	8	25	Wetzel	Center	Evan H. & Janet L. Backinger	0.44
40	8	17	Wetzel	Center	Evan H. & Janet L. Backinger	91.00
41	8	10	Wetzel	Center	Howard M. Henderson	160 & 250
42	8	3	Wetzel	Center	Howard M. Henderson	38.00
43	8	18	Wetzel	Center	Evan H. & Janet L. Backinger	79.30
44	8	35	Wetzel	Center	Keneth J. Hollibaugh	87.00
45	8	6	Wetzel	Center	David Wood	44.00
46	3	28	Wetzel	Center	Howard M. Henderson	125.10
47	5	27	Wetzel	Center	Howard M. Henderson	8.00
48	5	29	Wetzel	Center	Terry L. Ruler	192.00
49	5	16	Wetzel	Center	Jack A. & Laura A. Cartwright	37.80
50	5	8	Wetzel	Center	None	N/A
51	5	5	Wetzel	Center	William E. & William J. Renner	6.10
52	5	4	Wetzel	Center	William E. Renner	140.34
53	5	14	Wetzel	Center	Benjamin E. Yarbok	224.00
54	9	22	Wetzel	Center	Mike Ross Inc	103.75



**As Drilled Well Information:**  
 Prine 11H coordinates are:  
 NAD 27 N: 427,885.94 E: 1,897,894.98  
 NAD 83 UTM N: 4,391,208.78 E: 538,559.50  
 Prine 11H Kick Out Point coordinates are:  
 NAD 27 N: 427,890.71 E: 1,697,707.32  
 NAD 83 UTM N: 4,391,210.29 E: 536,563.24  
 Prine 11H Landing Point coordinates are:  
 NAD 27 N: 430,085.23 E: 1,699,513.94  
 NAD 83 UTM N: 4,391,888.09 E: 537,102.51  
 Prine 11H Bottom Hole coordinates are:  
 NAD 27 N: 438,414.04 E: 1,691,160.98  
 NAD 83 UTM N: 4,394,382.98 E: 534,515.37  
 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.	Owner	Acres
870415	Howard Henderson, et al.	189
870525	Nancy E. Jolliffe, et al.	5.5
870424	Nancy E. Jolliffe	26
871343	Thomas J. Iacaboni, et al.	4.75
1026831	AMP Fund III, LP, et al.	132.6
870258	Glen E. Burnette, Jr., et al.	59
870417	Sherry Lynn Chefran, et al.	108
870244	Howard Henderson, et al.	91.5
870188	Carol Louise Saunik Eitringham	57
870035	Stone Hill Minerals Holdings, LLC, et al.	150
1041918	Ronald R. Reiter, et al.	26.89
1046873	Coastal Forest Resources Company	15.66
877947	EQT Production Company, et al.	222
870368	Sandra Estes, et al.	81.5 & 12.5 of 288.54
870648	Deiorse A. Homer, et al.	226
871183	Oakey Ray Long & Joyce Lee Long, et al.	172.5
870431	Lisa Koon, et al.	47.25



- 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: 289-16  
 DRAWING NO: Prine 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: May 03 20 21  
 OPERATOR'S WELL NO.: Prine 11H  
 API WELL NO: 47 - 103 - 03359  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1335' WATERSHED Tributary of Bear Run QUADRANGLE: Littleton  
 DISTRICT: Center COUNTY: Wetzel  
 SURFACE OWNER: Howard M. Henderson ACREAGE: 112  
 ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACREAGE: 111  
 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: 7,489'  
 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

09/09/2022

# Perforation Data

Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	10/07/2021	20434.0	20254	40	Marcellus
3	10/09/2021	20236.0	20056	40	Marcellus
4	10/09/2021	20038.0	19858	40	Marcellus
5	10/10/2021	19838.0	19660	40	Marcellus
6	10/11/2021	19643.0	19482	40	Marcellus
7	10/11/2021	19444.0	19264	40	Marcellus
8	10/12/2021	19242.0	19066	40	Marcellus
9	10/12/2021	19046.0	18868	40	Marcellus
10	10/13/2021	18847.0	18670	40	Marcellus
11	10/14/2021	18652.0	18472	40	Marcellus
12	10/16/2021	18454.0	18274	40	Marcellus
13	10/17/2021	18256.0	18076	40	Marcellus
14	10/17/2021	18058.0	17878	40	Marcellus
15	10/18/2021	17860.0	17680	40	Marcellus
16	10/19/2021	17662.0	17482	40	Marcellus
17	10/19/2021	17464.0	17284	40	Marcellus
18	10/20/2021	17266.0	17086	40	Marcellus
19	10/20/2021	17068.0	16888	40	Marcellus
20	10/21/2021	16870.0	16690	40	Marcellus
21	10/21/2021	16672.0	16492	40	Marcellus
22	10/22/2021	16474.0	16294	40	Marcellus
23	10/23/2021	16275.2	16096	40	Marcellus
24	10/23/2021	16078.0	15898	40	Marcellus
25	10/24/2021	15877.5	15700	40	Marcellus
26	10/25/2021	15682.0	15502	40	Marcellus
27	10/25/2021	15484.0	15304	40	Marcellus
28	10/26/2021	15281.5	15106	40	Marcellus
29	10/27/2021	15088.0	14908	40	Marcellus
30	10/27/2021	14890.0	14710	40	Marcellus
31	10/28/2021	14692.0	14512	40	Marcellus
32	10/29/2021	14490.0	14314	40	Marcellus
33	10/30/2021	14292.7	14116	40	Marcellus
34	10/31/2021	14098.0	13918	40	Marcellus
35	11/01/2021	13897.1	13720	40	Marcellus
36	11/01/2021	13702.0	13522	40	Marcellus
37	11/02/2021	13504.0	13324	40	Marcellus
38	11/02/2021	13306.0	13126	40	Marcellus
39	11/03/2021	13103.0	12928	40	Marcellus
40	11/04/2021	12910.0	12730	40	Marcellus
41	11/05/2021	12709.0	12532	40	Marcellus
42	11/05/2021	12514.0	12334	40	Marcellus
43	11/06/2021	12316.0	12136	40	Marcellus

---

44	11/07/2021	12118.0	11938	40	Marcellus
45	11/07/2021	11916.0	11740	40	Marcellus
46	11/08/2021	11722.0	11542	40	Marcellus
47	11/08/2021	11524.0	11344	40	Marcellus
48	11/09/2021	11326.0	11146	40	Marcellus
49	11/09/2021	11115.0	10948	40	Marcellus
50	11/10/2021	10928.0	10750	40	Marcellus
51	11/12/2021	10729.0	10552	40	Marcellus
52	11/12/2021	10532.0	10354	40	Marcellus
53	11/12/2021	10333.0	10156	40	Marcellus
54	11/13/2021	10136.0	9958	40	Marcellus
55	11/13/2021	9937.0	9760	40	Marcellus
56	11/13/2021	9740.0	9562	40	Marcellus
57	11/14/2021	9542.0	9364	40	Marcellus
58	11/14/2021	9343.0	9166	40	Marcellus
59	11/14/2021	9146.0	8968	40	Marcellus
60	11/15/2021	8948.0	8770	40	Marcellus
61	11/15/2021	8750.0	8572	40	Marcellus

# Stimulation Data

Stage #	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	10/07/2021	70	9356	7278	4530	176000	7593	
2	10/09/2021	97	9030	5862	5196	440303	11241	
3	10/09/2021	96	9153	5321	4527	440393	9907	
4	10/10/2021	100	9300	5443	5411	440566	9923	
5	10/10/2021	94	9110	5410	4555	440209	10086	
6	10/11/2021	99	9348	5328	5088	440285	10526	
7	10/12/2021	98	9195	5233	5301	440427	10037	
8	10/12/2021	98	9359	5204	4805	440353	9997	
9	10/13/2021	99	9266	5306	5072	440102	10019	
10	10/14/2021	100	9254	5023	5005	440062	9972	
11	10/15/2021	100	9340	5212	4356	440218	10014	
12	10/16/2021	100	9270	5443	4581	440094	9937	
13	10/17/2021	97	9183	5597	5252	440000	9959	
14	10/18/2021	100	9329	5890	5377	440029	9873	
15	10/19/2021	99	9235	3111	3920	440008	9863	
16	10/19/2021	99	9227	5516	6065	440016	10714	
17	10/20/2021	100	9304	5566	4777	440097	9853	
18	10/20/2021	100	9305	5647	6147	440808	9879	
19	10/21/2021	99	9373	5818	5177	440138	9829	
20	10/21/2021	94	9374	5953	5251	440174	9898	
21	10/22/2021	95	9169	6130	5935	440275	11150	
22	10/23/2021	96	9251	6427	5785	440890	9896	
23	10/23/2021	94	9387	6262	5616	440298	9933	
24	10/24/2021	100	9334	6244	5918	440477	9915	
25	10/25/2021	99	9355	6506	4991	440138	9893	
26	10/25/2021	94	9352	6551	4718	440136	9842	
27	10/26/2021	95	9316	6868	5375	440120	9735	
28	10/27/2021	97	9310	6338	5297	440500	9808	
29	10/27/2021	96	9308	6682	5590	440171	9844	
30	10/28/2021	94	9324	6576	5088	440611	10414	
31	10/29/2021	98	9318	6852	6275	440354	9842	
32	10/30/2021	97	9109	6604	5946	440989	9744	
33	10/31/2021	100	9128	6468	5195	441059	9676	
34	11/01/2021	99	9186	6274	6138	440526	9734	
35	11/01/2021	101	9243	6044	4943	440883	9700	
36	11/02/2021	100	9114	6001	5860	440620	9643	
37	11/02/2021	101	9278	5822	4850	440190	9646	
38	11/03/2021	100	9304	5828	5588	440625	10189	
39	11/04/2021	100	9198	5943	5741	440025	10324	
40	11/05/2021	100	9175	5766	4569	440446	9636	
41	11/05/2021	99	8982	5773	4429	440008	9583	
42	11/06/2021	100	9075	5631	5378	440969	9600	



---

43	11/07/2021	100	8874	5744	4814	440151	9574
44	11/07/2021	100	9081	4431	4431	440412	9825
45	11/07/2021	100	8866	4646	4646	440008	9552
46	11/08/2021	100	9074	5691	5507	440501	9570
47	11/09/2021	100	8641	5662	4763	440000	9520
48	11/09/2021	100	8731	5494	4413	440424	9537
49	11/09/2021	100	8589	5330	4688	440210	9520
50	11/12/2021	100	8641	5553	5928	440001	9518
51	11/12/2021	100	8464	5614	5398	441598	9521
52	11/12/2021	100	8449	5330	5068	440010	9539
53	11/13/2021	100	8450	5434	5139	440053	9519
54	11/13/2021	100	8332	5472	4419	440001	9495
55	11/13/2021	100	8518	5438	4572	440014	9624
56	11/14/2021	100	8293	5518	4529	440103	9483
57	11/14/2021	101	8589	5620	5054	440050	9589
58	11/14/2021	99	8483	5597	4368	440024	9647
59	11/15/2021	100	8352	5544	4621	440000	9610
60	11/15/2021	100	8381	5623	5192	440034	9610
61	11/16/2021	97	9006	5782	4507	440027	9449

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/5/2021
Job End Date:	1/4/2022
State:	West Virginia
County:	Wetzel
API Number:	47-103-03359-00-00
Operator Name:	EQT Production
Well Name and Number:	Prine 11H
Latitude:	39.66991410
Longitude:	-80.57374680
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,527
Total Base Water Volume (gal):	25,139,898
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Abstract 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	88.59610	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.00000	11.23083	None
Clearal 268	ChemStream	Biocide	Non-hazardous substances	Proprietary	80.00000	0.00896	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00755	None
FR-9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00713	None
FR-9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00317	None
HCl	Beusa Holdings, Inc. dba Evolution Well Services Operating, LLC.	Acid	Hydrogen Chloride	7647-01-0	15.00000	0.00157	None
Clearal 268	ChemStream	Biocide	Glutaraldehyde	111-30-8	20.00000	0.00056	None





May 7, 2021

Matthew Hardt  
11306 Clubhouse Rd  
Presto, PA 15142

Mr. Hardt,

Please find enclosed a mylar copy of the Prine 11H As Drilled plat.

Thanks,  
Ben Singleton

**BIRCH RIVER OFFICE**  
237 Birch River Road  
Birch River, WV 26610  
*phone: 304-649-8606 fax: 304-649-8608*

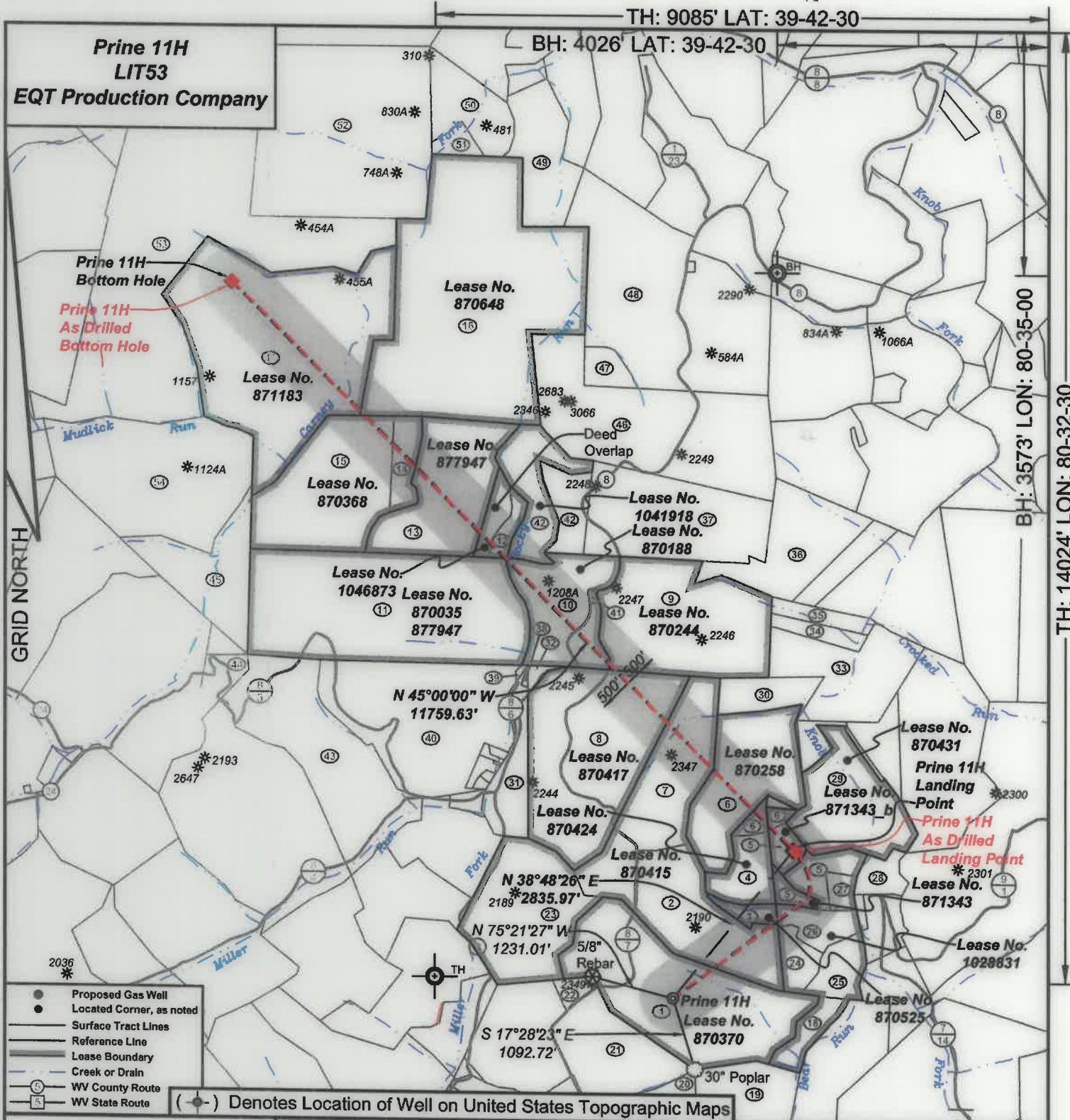
**BRIDGEPORT OFFICE**  
172 Thompson Drive  
Bridgeport, WV 26330  
*phone: 304-848-5035 fax: 304-848-5037*

**CHARLESTON OFFICE**  
301 RHL Boulevard - Suite 5  
Charleston, WV 25309  
*phone: 304-756-2949 fax: 304-756-2948*

ALLEGHENYSURVEYS.COM

09/09/2022





- 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: 289-16  
DRAWING NO: Prine 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: May 03 20 21  
OPERATOR'S WELL NO.: Prine 11H  
API WELL NO  
47 - 103 - 03359  
STATE COUNTY PERMIT

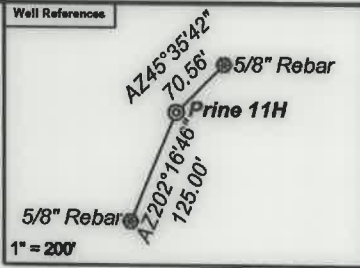
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1335' WATERSHED Tributary of Bear Run QUADRANGLE: Littleton  
DISTRICT: Center COUNTY: Wetzel  
SURFACE OWNER: Howard M. Henderson ACREAGE: 111  
ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACREAGE: 111  
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: 7,489'

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



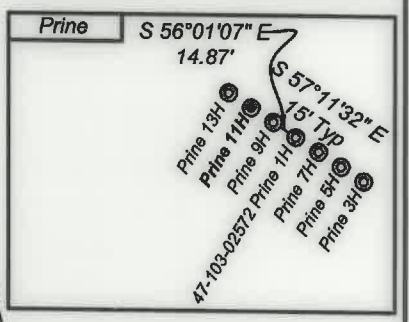
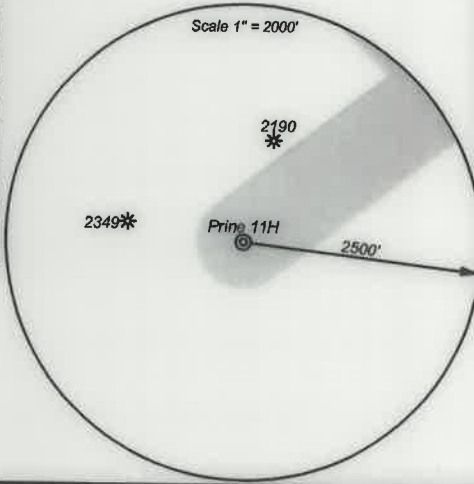
**Prine 11H  
LIT53  
EQT Production Company**

Tract I.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	8	43	Wetzel	Center	Howard M. Henderson	112.00
2	8	44	Wetzel	Center	William D. Henderson	65.00
3	8	45	Wetzel	Center	Howard Henderson	5.50
4	8	31.1	Wetzel	Center	Howard Henderson	18.43
5	8	53	Wetzel	Center	Ashley Murphy, et al.	20.38
6	8	31	Wetzel	Center	Howard Henderson	64.78
7	8	29	Wetzel	Center	Howard M. & William D. Henderson	57.00
8	8	28	Wetzel	Center	Matthew J. Rica	106.00
9	8	11	Wetzel	Center	Howard M. Henderson	01.50
10	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	67.00
11	8	7	Wetzel	Center	EQT Production Company	150.00
12	8	3.1	Wetzel	Center	Dallison Lumber Inc	15.06
13	8	2	Wetzel	Center	EQT Production Company	72.43
14	5	24	Wetzel	Center	EQT Production Company	12.50
15	8	1	Wetzel	Center	EQT Production Company	81.50
16	5	15	Wetzel	Center	Howard M. Henderson	228.00
17	5	23	Wetzel	Center	Robert Long, et al.	172.50
18	11	9	Wetzel	Center	Howard M. Henderson	10.10
19	11	8	Wetzel	Center	James B. & Margie L. Montgomery	52.00
20	11	6.1	Wetzel	Center	Larry L. & Lois J. Deem	94.50
21	11	6	Wetzel	Center	Ray S. & Timmy R. Sapp	90.50
22	11	6.2	Wetzel	Center	Roger L. & Sandra K. Wade	4.00
23	8	42	Wetzel	Center	Jeffrey P. & Howard M. Henderson	67.00
24	8	55	Wetzel	Center	Ashley Murphy, et al.	9.43
25	8	47	Wetzel	Center	Howard M. Henderson	14.75
26	8	46	Wetzel	Center	Howard M. Henderson	13.20
27	8	52	Wetzel	Center	Ashley Murphy, et al.	3.35
28	6	31	Wetzel	Clay	Howard M. Henderson	8.20
29	8	59	Wetzel	Center	Ashley Murphy, et al.	47.25
30	8	30	Wetzel	Center	Howard M. Henderson	18.00
31	8	24	Wetzel	Center	Charles P. & Franmy P. Wade	19.44
32	8	27	Wetzel	Center	Evan H. & Janet L. Beckinger	1.80
33	8	12	Wetzel	Center	Howard Henderson	42.65
34	8	13	Wetzel	Center	Howard M. Henderson	9.50
35	8	14	Wetzel	Center	Howard M. Henderson	9.50
36	8	5	Wetzel	Center	Howard Henderson	56.00
37	8	4	Wetzel	Center	Howard M. Henderson	69.23
38	8	20	Wetzel	Center	Evan H. & Janet L. Beckinger	0.25
39	8	25	Wetzel	Center	Evan H. & Janet L. Beckinger	0.44
40	8	17	Wetzel	Center	Evan H. & Janet L. Beckinger	91.00
41	8	10	Wetzel	Center	Howard M. Henderson	100 x 250
42	8	3	Wetzel	Center	Howard M. Henderson	38.00
43	8	16	Wetzel	Center	Evan H. & Janet L. Beckinger	79.30
44	8	36	Wetzel	Center	Kenneth J. Hollibaugh	87.00
45	8	6	Wetzel	Center	David Wood	44.00
46	5	26	Wetzel	Center	Howard M. Henderson	125.14
47	5	27	Wetzel	Center	Howard M. Henderson	8.00
48	5	28	Wetzel	Center	Terry L. Riter	162.00
49	5	16	Wetzel	Center	Jack A. & Laura A. Cartwright	37.80
50	5	6	Wetzel	Center	None	None
51	5	5	Wetzel	Center	William E. & William J. Renner	5.10
52	5	4	Wetzel	Center	William E. Renner	149.54
53	5	14	Wetzel	Center	Benjamin E. Yarber	224.00
54	5	22	Wetzel	Center	Mike Rosa Inc	103.75



**As Drilled Well Information:**  
**Prine 11H coordinates are**  
 NAD 27 N: 427,885.94 E: 1,697,694.98  
 NAD 83 UTM N: 4,391,208.78 E: 536,559.50  
**Prine 11H Kick Out Point coordinates are**  
 NAD 27 N: 427,890.71 E: 1,697,707.32  
 NAD 83 UTM N: 4,391,210.29 E: 536,563.24  
**Prine 11H Landing Point coordinates are**  
 NAD 27 N: 430,085.23 E: 1,699,513.94  
 NAD 83 UTM N: 4,391,888.09 E: 537,102.51  
**Prine 11H Bottom Hole coordinates are**  
 NAD 27 N: 438,414.04 E: 1,691,160.98  
 NAD 83 UTM N: 4,394,382.98 E: 534,515.37  
 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.	Owner	Acres
870415	Howard Henderson, et al.	189
870525	Nancy E. Jolliffe, et al.	5.5
870424	Nancy E. Jolliffe	26
871343	Thomas J. Iacaboni, et al.	4.75
1028831	AMP Fund III, LP, et al.	132.6
870258	Glen E. Burnette, Jr., et al.	59
870417	Sherry Lynn Cheffren, et al.	108
870244	Howard Henderson, et al.	91.5
870188	Carol Louise Saunik Eltringham	57
870035	Stone Hill Minerals Holdings, LLC, et al.	150
1041918	Ronald R. Reiter, et al.	26.89
1046873	Coastal Forest Resources Company	15.66
877947	EQT Production Company, et al.	222
870368	Sandra Estes, et al.	81.5 & 12.5 of 288.54
870648	Delorse A. Horner, et al.	226
871183	Oakey Ray Long & Joyce Lee Long, et al.	172.5
870431	Lisa Koon, et al.	47.25



- 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: 289-16  
 DRAWING NO: Prine 11H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: May 03 20 21  
 OPERATOR'S WELL NO.: Prine 11H  
 API WELL NO  
 47 - 103 - 03359  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1335' WATERSHED Tributary of Bear Run QUADRANGLE: Littleton  
 DISTRICT: Center COUNTY: Wetzel  
 SURFACE OWNER: Howard M. Henderson  
 ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACREAGE: 111  
 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: 7,489'  
 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