

Well Operator's Report of Well Work



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Office of Oil and Gas

APR 28 2022

WV Department of  
Environmental Protection

Well Number: LIT53 7H (675542)

API: 47 - 103 - 03357

Submission:  Initial  Amended

Notes:

Reviewed

*Kenneth Sheple*  
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 47-103-03357 County Wetzel District Center  
Quad Littleton Pad Name Prine Field/Pool Name N/A  
Farm name Howard M. Henderson Well Number LIT53 7H (675542)  
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 4,391,201.54 Easting 536,571.15  
Landing Point of Curve Northing 4,392,234.36 Easting 535,855.76  
Bottom Hole Northing 4,394,443.39 Easting 533,572.89

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 13.75 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

Date permit issued 8/03/2020 04/05/2021 Date drilling commenced 11/02/2020 Date drilling ceased 04/18/2021  
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 - 03357 Farm name Howard M. Henderson Well number LIT53 7H (675542)

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"	1290'	NEW	J-55 54.5#	801'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2874'	NEW	P-110 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	19,543'	NEW	HP-P110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1410' 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	1058	16.0	1.13	1196	0	8
Coal							
Intermediate 1	CLASS A	925	15.6	1.18	1091	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3577	15.2	1.15	4113	1410	8+
Tubing							

Drillers TD (ft) 19,563' Loggers TD (ft) N/A  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 1322'

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 2279'

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 - 03357 Farm name Howard M. Henderson Well number LIT53 7H (675542)

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

API 47- 103 - 03357 Farm name Howard M. Henderson Well number LIT53 7H (675542)

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 13598.807 mcfpd Oil 0 bpd NGL 0 bpd Water 7.8 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 - 03357 Farm name Howard M. Henderson Well number LIT53 7H (675542)

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

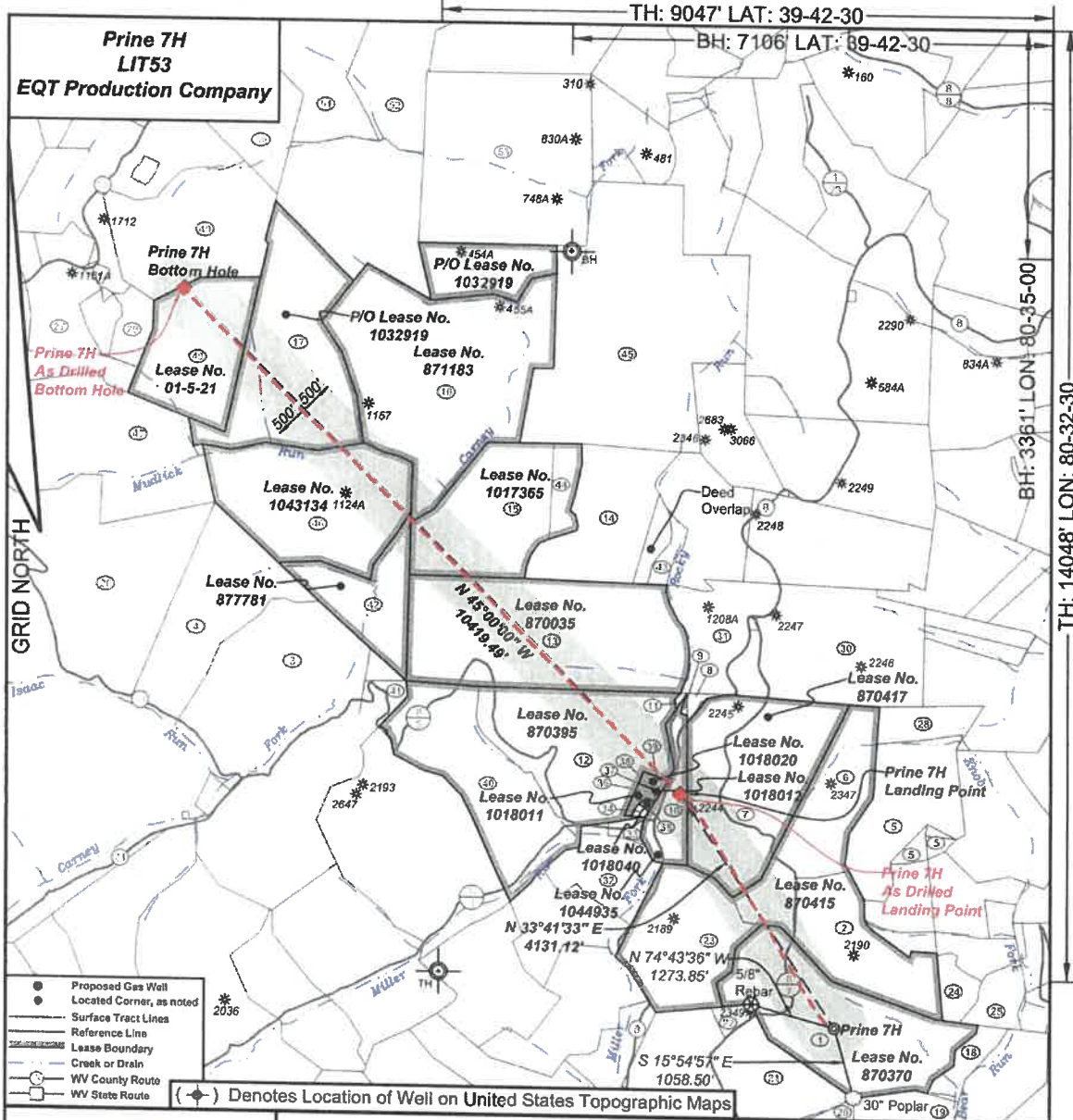
Logging Company Scientific Drilling International  
Address 124 Vista Drive City Charleroi State PA Zip 15022

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 7H (675542) Final Formations API# 47-103-03357				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	823	823
Waynesburg	823	823	827	827
Sand/Shale	827	827	1,045	1,045
Sewickley	1,045	1,045	1,051	1,051
Sand/Shale	1,051	1,051	1,147	1,147
Pittsburgh	1,147	1,147	1,153	1,153
Sand/Shale	1,153	1,153	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	3,183
Gordon	3,190	3,183	3,407	3,388
Baynard	3,407	3,388	5,846	5,261
Alexander	5,846	5,261	6,289	5,590
Elks	6,289	5,590	8,225	7,043
Sonyea	8,225	7,043	8,438	7,203
Middlesex	8,438	7,203	8,492	7,243
Genesee	8,492	7,243	8,613	7,324
Geneseo	8,613	7,324	8,650	7,346
Tully	8,650	7,346	8,694	7,371
Hamilton	8,694	7,371	9,016	7,484
Marcellus	9,016	7,484	19,563	7,477

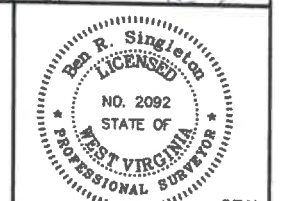
09/09/2022



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. Stotts*

P.S. 2092



FILE NO: 289-16  
 DRAWING NO: Prine 7H  
 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: April 20, 2021  
 OPERATOR'S WELL NO.: Prine 7H  
 API WELL NO: 47-103-03357  
 STATE COUNTY PERMIT

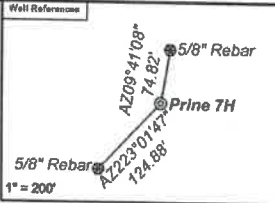
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: 1335' WATERSHED: Tributary of Bear Run QUADRANGLE: Littleton  
 DISTRICT: Center COUNTY: Wetzel  
 SURFACE OWNER: Howard M. Henderson ACREAGE: 112  
 ROYALTY OWNER: Jamie Joe 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



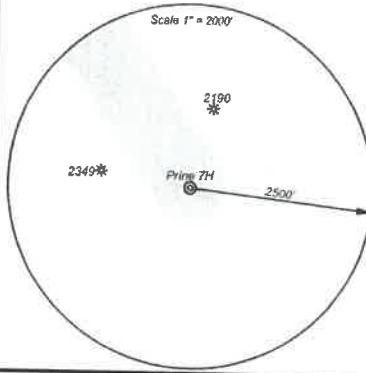
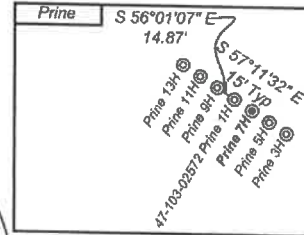
**Prine 7H  
LIT53  
EQT Production Company**



**As Drilled Well Information:**  
 Prine 7H coordinates are  
 NAD 27 N: 427,861.56 E: 1,697,732.81  
 NAD 83 UTM N: 4,391,201.54 E: 536,571.15  
 Prine 7H Kick Out Point coordinates are  
 NAD 27 N: 427,853.93 E: 1,697,744.99  
 NAD 83 UTM N: 4,391,199.28 E: 536,574.90  
 Prine 7H Landing Point coordinates are  
 NAD 27 N: 431,289.95 E: 1,695,441.82  
 NAD 83 UTM N: 4,392,234.36 E: 535,855.76  
 Prine 7H Bottom Hole coordinates are  
 NAD 27 N: 438,864.04 E: 1,688,071.84  
 NAD 83 UTM N: 4,394,443.39 E: 533,572.89  
 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 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	65.00
3	7	7	Wetzel	Center	Charles D. Wood	108.27
4	7	8.1	Wetzel	Center	Rickey A. & Carol A. Yeater	149.00
5	8	31	Wetzel	Center	Howard Henderson	64.78
6	8	29	Wetzel	Center	Howard M. & William D. Henderson	67.00
7	8	28	Wetzel	Center	Matthew J. Rice	108.00
8	8	27	Wetzel	Center	Ever H. & Janet L. Backinger	1.80
9	8	26	Wetzel	Center	Ever H. & Janet L. Backinger	0.22
10	8	24	Wetzel	Center	Charles P. & Finney P. Wade	10.44
11	8	25	Wetzel	Center	Ever H. & Janet L. Backinger	0.44
12	8	17	Wetzel	Center	Ever H. & Janet L. Backinger	61.00
13	8	7	Wetzel	Center	EQT Production Company	150.00
14	8	2	Wetzel	Center	EQT Production Company	72.43
15	8	1	Wetzel	Center	EQT Production Company	81.30
16	5	23	Wetzel	Center	Robert Long, et al	172.50
17	5	14	Wetzel	Center	Benjamin E. Yarber	224.00
18	11	9	Wetzel	Center	Howard M. Henderson	10.10
19	11	8	Wetzel	Center	James B. & Margie L. Montgomery	52.00
20	11	0.1	Wetzel	Center	Larry L. & Lois J. Deem	94.60
21	11	6	Wetzel	Center	Ray S. & Tammy R. Sapp	90.90
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	65	Wetzel	Center	Ashley Murphy, et al	9.43
25	9	47	Wetzel	Center	Howard M. Henderson	14.76
26	7	8	Wetzel	Center	Walter J. Dobson	192.21
27	4	25	Wetzel	Center	Steve Long	34.25
28	9	30	Wetzel	Center	Howard M. Henderson	18.00
29	4	35.7	Wetzel	Center	Robert L. Long et al.	13.00
30	8	11	Wetzel	Center	Howard M. Henderson	91.50
31	8	8	Wetzel	Center	Liam M. Pitzer & Jason L. Wright	57.00
32	8	40.1	Wetzel	Center	Robert E. Dorkney, Sr	28.00
33	8	21	Wetzel	Center	Charles P. & Finney P. Wade	3.00
34	8	22	Wetzel	Center	William R. White	0.66
35	8	23	Wetzel	Center	William R. White, et al	0.54
36	8	20	Wetzel	Center	William R. White	2.87
37	9	18.1	Wetzel	Center	Kenneth R. Morris, et al	0.10
38	9	18	Wetzel	Center	William R. White	1.00
39	9	19	Wetzel	Center	William R. White	0.68
40	5	18	Wetzel	Center	Ever H. & Janet L. Backinger	76.30
41	8	39	Wetzel	Center	Kenneth J. Holmberg	87.00
42	8	6	Wetzel	Center	David Wood	44.00
43	8	3.1	Wetzel	Center	Dalton Luster, Inc	15.60
44	5	24	Wetzel	Center	EQT Production Company	12.50
45	5	15	Wetzel	Center	Howard M. Henderson	728.00
46	5	22	Wetzel	Center	Mike Rotts Inc	103.75
47	4	82	Wetzel	Center	James L. Masgrave, et al.	127.72
48	5	21	Wetzel	Center	Susan Miller, et al.	86.25
49	5	13	Wetzel	Center	Susan Miller, et al.	80.00
50	5	2	Wetzel	Center	Susan Miller, et al.	40.00
51	5	3.1	Wetzel	Center	Larry G. & Jane L. Rice	65.60
52	8	3.2	Wetzel	Center	Larry G. & Jane L. Rice	62.40
53	5	4	Wetzel	Center	William E. Renner	149.84

Lease No.	Owner	Acres
870415	Howard Henderson, et al.	189
870417	Sherry Lynn Chefron, et al.	108
1044935	Margaret D. Sole, et al.	19.44
1018020	Jack Anderson, et ux., et al.	1.56
870395	Brian R. Morgan, et al.	170
870035	Stone Hill Minerals Holdings, LLC, et al.	150
1017365	Sandra Estes, et al.	81.5 & 12.5 of 288.54
871183	Oakey Ray Long and Joyce Lee Long, et al.	172.5
877781	David & Imogene Wood	44
1043134	Kathleen O'Grady, a/k/a Nancy O'Grady	103.75
1032919	Benjamin Yarber, et ux.	136.595184 of 224
1018012	June M. Morris, et al.	0.10
1018011	Diana Dawn Van Horn, et al.	2.87
1018040	Ronald White, et ux., et al.	5,625/10,000
01-5-21	Susan Miller, et al.	69.25



- 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 A. Stutz*  
P.S. 2092



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 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	11/18/2021	19444.0	19267	40	Marcellus
3	11/19/2021	19246.0	19069	40	Marcellus
4	11/19/2021	19048.0	18871	40	Marcellus
5	11/20/2021	18847.8	18673	40	Marcellus
6	11/20/2021	18651.0	18475	40	Marcellus
7	11/21/2021	18457.0	18277	40	Marcellus
8	11/22/2021	18256.9	18079	40	Marcellus
9	11/24/2021	18056.0	17881	40	Marcellus
10	11/25/2021	17863.0	17683	40	Marcellus
11	11/25/2021	17663.7	17485	40	Marcellus
12	11/27/2021	17467.0	17287	40	Marcellus
13	11/29/2021	17264.0	17090	40	Marcellus
14	12/02/2021	17066.0	16892	40	Marcellus
15	12/03/2021	16873.0	16693	40	Marcellus
16	12/04/2021	16675.0	16495	40	Marcellus
17	12/06/2021	16477.0	16297	40	Marcellus
18	12/07/2021	16279.0	16099	40	Marcellus
19	12/20/2021	16079.1	15901	40	Marcellus
20	12/21/2021	15878.6	15703	40	Marcellus
21	12/21/2021	15682.0	15505	40	Marcellus
22	12/21/2021	15484.0	15307	40	Marcellus
23	12/21/2021	15283.9	15109	40	Marcellus
24	12/22/2021	15091.0	14911	40	Marcellus
25	12/22/2021	14892.2	14713	40	Marcellus
26	12/23/2021	14693.9	14515	40	Marcellus
27	12/23/2021	14497.0	14317	40	Marcellus
28	12/23/2021	14295.6	14119	40	Marcellus
29	12/24/2021	14100.4	13921	40	Marcellus
30	12/24/2021	13903.0	13723	40	Marcellus
31	12/24/2021	13702.7	13525	40	Marcellus
32	12/24/2021	13507.0	13327	40	Marcellus
33	12/25/2021	13309.0	13129	40	Marcellus
34	12/25/2021	13108.9	12931	40	Marcellus
35	12/25/2021	12913.0	12733	40	Marcellus
36	12/26/2021	12715.0	12535	40	Marcellus
37	12/26/2021	12517.0	12337	40	Marcellus
38	12/26/2021	12318.5	12139	40	Marcellus
39	12/26/2021	12121.0	11941	40	Marcellus
40	12/27/2021	11922.8	11743	40	Marcellus
41	12/28/2021	11725.0	11545	40	Marcellus
42	12/29/2021	11527.0	11347	40	Marcellus
43	12/29/2021	11329.0	11149	40	Marcellus

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44	12/30/2021	11131.0	10951	40	Marcellus
45	12/30/2021	10931.0	10753	40	Marcellus
46	12/31/2021	10735.0	10555	40	Marcellus
47	12/31/2021	10537.0	10357	40	Marcellus
48	12/31/2021	10339.0	10159	40	Marcellus
49	01/01/2022	10141.0	9961	40	Marcellus
50	01/01/2022	9943.0	9763	40	Marcellus
51	01/02/2022	9745.0	9565	40	Marcellus
52	01/02/2022	9547.0	9367	40	Marcellus
53	01/02/2022	9349.0	9169	40	Marcellus
54	01/03/2022	9151.0	8971	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	11/18/2021	85	9249	6824	5532	176400	4101	
2	11/18/2021	88	9404	6277	4589	440120	9816	
3	11/19/2021	100	9338	5657	4444	440054	9843	
4	11/20/2021	100	9286	5728	4766	440088	9833	
5	11/20/2021	98	9386	5677	4408	440312	9918	
6	11/21/2021	99	9318	5938	5139	440001	9825	
7	11/22/2021	99	9358	5910	4966	440005	9864	
8	11/23/2021	94	9059	6044	5534	440216	10446	
9	11/24/2021	99	9295	5542	4664	440287	9837	
10	11/25/2021	100	9348	5802	5662	440460	9734	
11	11/27/2021	100	9167	5624	4757	440173	9782	
12	11/28/2021	100	9210	5405	4960	440090	9816	
13	12/01/2021	100	9271	5525	5105	440131	9854	
14	12/03/2021	100	9353	5513	4746	440531	9840	
15	12/04/2021	100	9274	5335	4796	440808	9767	
16	12/05/2021	99	9254	5489	4735	440161	9849	
17	12/06/2021	100	9162	5333	4551	440313	9794	
18	12/20/2021	100	9428	5138	5098	440213	10038	
19	12/21/2021	100	9118	5185	5791	440357	9738	
20	12/21/2021	100	9217	5240	4892	440380	9705	
21	12/21/2021	100	9187	5370	5359	440457	9695	
22	12/21/2021	100	9324	5304	5667	440115	9705	
23	12/22/2021	100	9240	5474	5115	440096	9697	
24	12/22/2021	100	9274	5542	5612	440232	9767	
25	12/23/2021	100	9251	5374	5553	440102	9671	
26	12/23/2021	100	9270	5530	4832	440095	9643	
27	12/23/2021	100	9282	5471	4895	440008	9667	
28	12/24/2021	100	9288	5700	5805	440197	9707	
29	12/24/2021	100	9220	5832	4950	440015	9640	
30	12/24/2021	100	9277	5720	5312	440629	9622	
31	12/24/2021	100	9294	5624	5880	440294	9660	
32	12/25/2021	100	9253	5501	5300	440002	9607	
33	12/25/2021	100	9251	5708	5128	440035	9620	
34	12/25/2021	99	9279	5852	5674	440246	9560	
35	12/26/2021	99	9217	5894	4801	440152	9592	
36	12/26/2021	100	9261	6003	5375	440007	9615	
37	12/26/2021	100	9214	5865	5746	440223	9599	
38	12/26/2021	99	9291	5822	5713	440235	9580	
39	12/27/2021	100	9255	6198	5858	440245	9576	
40	12/28/2021	98	9326	6276	4997	440142	9563	
41	12/29/2021	100	9249	6152	5423	440075	9392	
42	12/29/2021	100	9264	6192	6158	440285	9543	

09/09/2022

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43	12/30/2021	100	9217	6205	4761	440000	9641
44	12/30/2021	100	9209	6145	5060	440278	9600
45	12/31/2021	100	9121	6327	5316	440106	9522
46	12/31/2021	99	9184	6310	4832	440036	9510
47	12/31/2021	100	9165	6262	5081	440178	9513
48	01/01/2022	99	9259	6020	4788	440160	9445
49	01/01/2022	100	9199	6043	5475	440768	9495
50	01/02/2022	100	8969	5188	5060	440127	9469
51	01/02/2022	100	8770	5316	4984	440113	9495
52	01/02/2022	100	8571	5738	4772	440208	9473
53	01/03/2022	100	8983	5702	4957	440070	9450
54	01/04/2022	100	8944	5780	5098	440360	9522

## 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:	47-103-03357-00-00
Operator Name:	EQT Production
Well Name and Number:	Prine 7H
Latitude:	39.66984840
Longitude:	-80.57361140
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,505
Total Base Water Volume (gal):	21,724,752
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	100.0000	88.3653	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.0000	11.4579	None
Clearal 268	ChemStream	Bicide	Non-hazardous substances	Proprietary	80.0000	0.0090	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.0000	0.0075	None
FR-9800	ChemStream	Friction Reducer	Non-hazardous substances	Proprietary	30.0000	0.0064	None
FR-9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	20.0000	0.0028	None
HCl	Beusa Holdings, Inc. dba Evolution Well Services Operating, LLC.	Acid	Petroleum Distillate	64742-47-8	15.0000	0.0018	None
Clearal 268	ChemStream	Bicide	Hydrogen Chloride	7647-01-0	20.0000	0.0005	None
			Glutaraldehyde	111-30-8			





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.			
Propylene Glycol Solution	Downing	None	
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Propylene Glycol 57-55-6
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Methanol 67-56-1
Ferplex 66	Evolution	Iron Control	Bis(Hexamethylene Triamine Penta(Methylene Phosphonic Acid)(BMT) 34690-00-1
FR-9800	ChemStream	Friction Reducer	Acetic Acid 00064-19-7
FR-9800	ChemStream	Friction Reducer	Oleic Acid Diethanolamide 93-83-4
Ferplex 66	Evolution	Iron Control	Alcohols, C12-16, ethoxylated 68551-12-2
Cleal 268	ChemStream	Bicide	Citric Acid 00077-92-9
Cleal 268	ChemStream	Bicide	Didecyl dimethyl ammonium chloride 7173-61-5
Cleal 268	ChemStream	Bicide	Quaternary Ammonium Compounds 68424-85-1
FR-9800	ChemStream	Friction Reducer	Ammonium chloride ((NH4)Cl) 12125-02-9
Cleal 268	ChemStream	Bicide	Ethanol 64-17-5
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Propargyl alcohol 107-19-7
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Alcohols, C14-C15, ethoxylated 68951-67-7

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



April 20, 2021

Matthew Hardt  
11306 Clubhouse Rd  
Presto, PA 15142

Mr. Hardt,

Please find enclosed a mylar copy of the Prine 7H As Drilled plat.

Thanks,

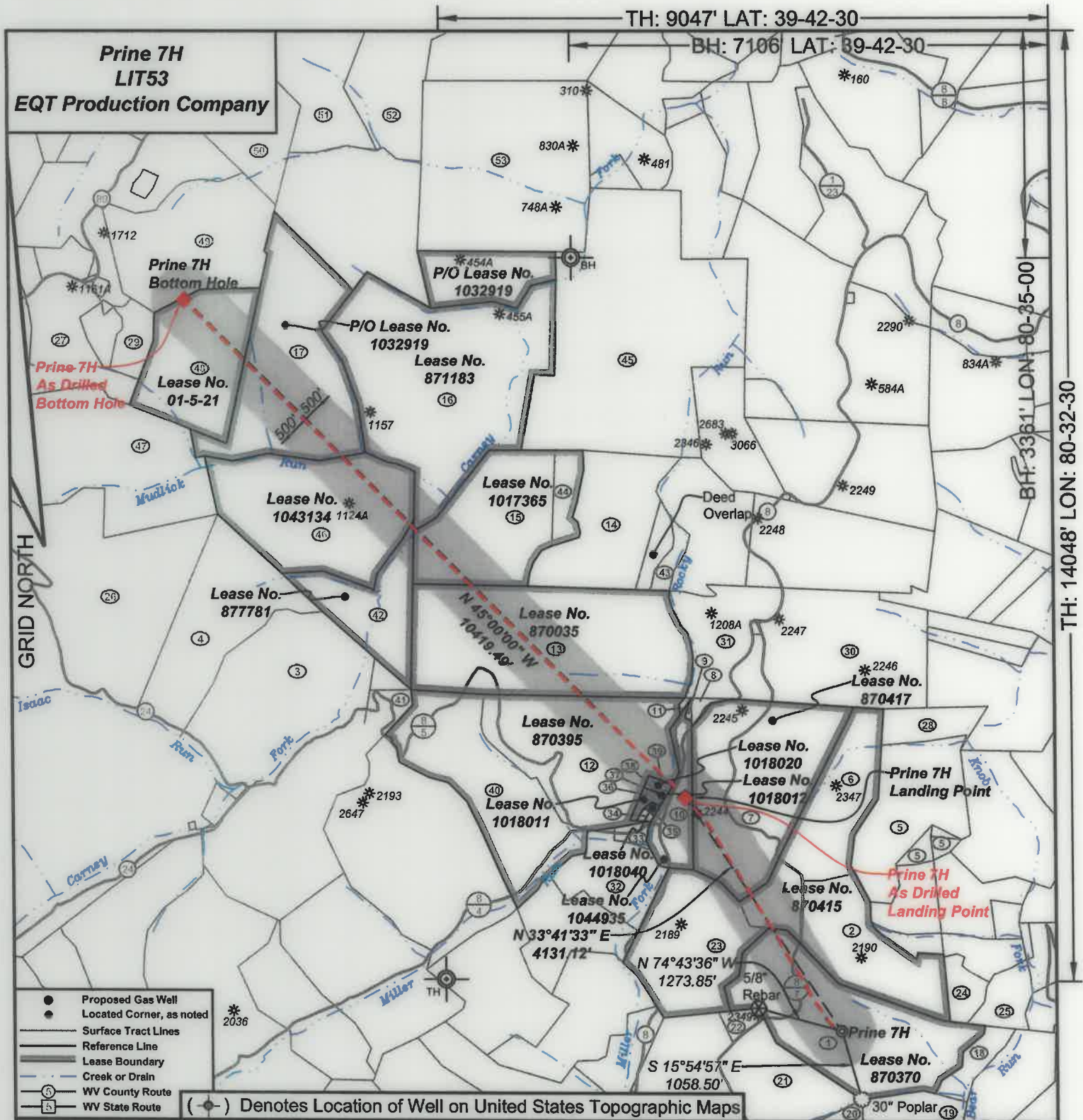
Ben Singleton

**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



- 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. Singleten*

P.S. 2092



SEAL

FILE NO: 289-16  
 DRAWING NO: Prine 7H  
 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



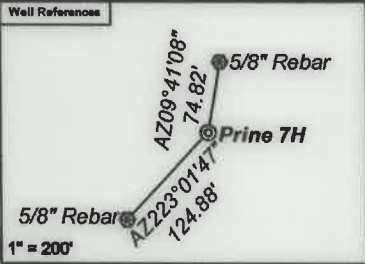
DATE: April 20 20 21  
 OPERATOR'S WELL NO.: Prine 7H  
 API WELL NO  
 47 - 103 - 03357  
 STATE COUNTY PERMIT

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

09/09/2022

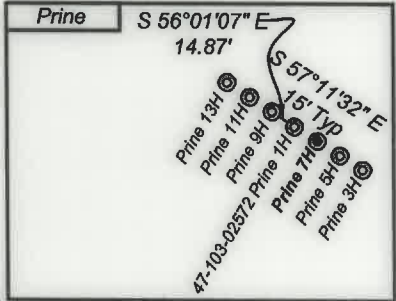
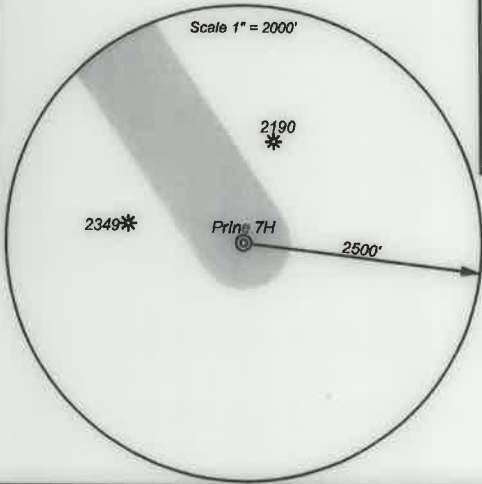
**Prine 7H  
LIT53  
EQT Production Company**



**As Drilled Well Information:**  
**Prine 7H coordinates are**  
 NAD 27 N: 427,861.56 E: 1,697,732.81  
 NAD 83 UTM N: 4,391,201.54 E: 536,571.15  
**Prine 7H Kick Out Point coordinates are**  
 NAD 27 N: 427,853.93 E: 1,697,744.99  
 NAD 83 UTM N: 4,391,199.28 E: 536,574.90  
**Prine 7H Landing Point coordinates are**  
 NAD 27 N: 431,289.95 E: 1,695,441.82  
 NAD 83 UTM N: 4,392,234.36 E: 535,855.76  
**Prine 7H Bottom Hole coordinates are**  
 NAD 27 N: 438,664.04 E: 1,688,071.64  
 NAD 83 UTM N: 4,394,443.39 E: 533,572.89  
 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	8	43	Wetzel	Center	Howard M. Henderson	112.00
2	8	44	Wetzel	Center	William D. Henderson	65.00
3	7	7	Wetzel	Center	Charles D. Wood	108.27
4	7	6.1	Wetzel	Center	Rickey A. & Carol A. Yeater	149.00
5	8	31	Wetzel	Center	Howard Henderson	64.78
6	8	29	Wetzel	Center	Howard M. & William D. Henderson	57.00
7	8	28	Wetzel	Center	Matthew J. Rica	108.00
8	8	27	Wetzel	Center	Evan H. & Janet L. Backinger	1.90
9	8	26	Wetzel	Center	Evan H. & Janet L. Backinger	0.25
10	8	24	Wetzel	Center	Charles P. & Franny P. Wade	19.44
11	8	25	Wetzel	Center	Evan H. & Janet L. Backinger	0.44
12	8	17	Wetzel	Center	Evan H. & Janet L. Backinger	91.00
13	8	7	Wetzel	Center	EQT Production Company	150.00
14	8	2	Wetzel	Center	EQT Production Company	72.43
15	8	1	Wetzel	Center	EQT Production Company	81.50
16	5	23	Wetzel	Center	Robert Long, et al.	172.50
17	5	14	Wetzel	Center	Benjamin E. Yarber	224.00
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	7	6	Wetzel	Center	Wallace J. Dolron	192.21
27	4	35	Wetzel	Center	Sueve Long	34.25
28	8	30	Wetzel	Center	Howard M. Henderson	19.00
29	4	36.7	Wetzel	Center	Robert L. Long, et al.	13.00
30	8	11	Wetzel	Center	Howard M. Henderson	91.50
31	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	57.00
32	8	40.1	Wetzel	Center	Robert E. Dorsey, Sr.	38.00
33	8	21	Wetzel	Center	Charles P. & Franny P. Wade	3.00
34	8	22	Wetzel	Center	William R. White	0.68
35	8	23	Wetzel	Center	William R. White, et al.	0.56
36	8	20	Wetzel	Center	William R. White	2.87
37	8	18.1	Wetzel	Center	Kenneth R. Morris, et al.	0.10
38	8	18	Wetzel	Center	William R. White	1.00
39	8	19	Wetzel	Center	William R. White	0.56
40	8	16	Wetzel	Center	Evan H. & Janet L. Backinger	79.30
41	8	36	Wetzel	Center	Kenneth J. Hollobaugh	87.00
42	8	6	Wetzel	Center	David Wood	44.00
43	8	3.1	Wetzel	Center	Dallison Lumber Inc	15.66
44	5	24	Wetzel	Center	EQT Production Company	12.50
45	6	15	Wetzel	Center	Howard M. Henderson	226.00
46	5	22	Wetzel	Center	Mike Ross Inc	103.75
47	4	52	Wetzel	Center	James L. Musgrave, et al.	127.72
48	5	21	Wetzel	Center	Susan Miller, et al.	69.25
49	5	13	Wetzel	Center	Susan Miller, et al.	80.00
50	5	2	Wetzel	Center	Susan Miller, et al.	40.00
51	5	3.1	Wetzel	Center	Larry G. & Jana L. Rine	69.80
52	5	3.2	Wetzel	Center	Larry G. & Jana L. Rine	62.40
53	5	4	Wetzel	Center	William E. Renner	149.54

Lease No.	Owner	Acres
870415	Howard Henderson, et al.	189
870417	Sherry Lynn Cheffren, et al.	108
1044935	Margaret D. Sole, et al.	19.44
1018020	Jack Anderson, et ux., et al.	1.56
870395	Brian R. Morgan, et al.	170
870035	Stone Hill Minerals Holdings, LLC, et al.	150
1017365	Sandra Estes, et al.	81.5 & 12.5 of 288.54
871183	Oakey Ray Long and Joyce Lee Long, et al.	172.5
877781	David & Imogene Wood	44
1043134	Kathleen O'Grady, a/k/a Nancy O'Grady	103.75
1032919	Benjamin Yarber, et ux.	136.595184 of 224
1018012	June M. Morris, et al.	0.10
1018011	Diana Dawn Van Horn, et al.	2.87
1018040	Ronald White, et ux., et al.	5,625/10,000
01-5-21	Susan Miller, et al.	69.25



- Proposed Gas Well
- Located Corner, as noted
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- Reference Line
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- Ⓢ WV State Route



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*Ben R. Singleton*  
 P.S. 2092



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