

Well Operator's Report of Well Work



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Office of Oil and Gas

APR 28 2022

NY Department of
Environmental Conservation

Well Number: LIT53 13H (675545)

API: 47 - 103 - 03343

Submission: Initial Amended

Notes:

Reviewed

Samuel 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 47-103-03343 County Wetzel District Center
Quad Littleton Pad Name Prine Field/Pool Name N/A
Farm name Howard M. Henderson Well Number LIT53 13H (675545)
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 4,391,211.19 Easting 536,555.62
Landing Point of Curve Northing 4,392,110.11 Easting 537,319.86
Bottom Hole Northing 4,394,575.66 Easting 534,750.61

Elevation (ft) 1335' 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 13.55 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 05/14/2020 Date drilling commenced 11/02/2020 Date drilling ceased 05/05/2021
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 - 03343 Farm name Howard M. Henderson Well number LIT53 13H (675545)

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"	1308'	NEW	J-55 54.5#	804'	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"	20,805'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1345' 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 ³ /sks)	Volume (ft ³)	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	949	15.6	1.18	1120	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4010	15.2	1.15	4612	1345	8+
Tubing							

Drillers TD (ft) 20,827' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 1538'

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 2193' _____

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 - 03343 Farm name Howard M. Henderson Well number LIT53 13H (675545)

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

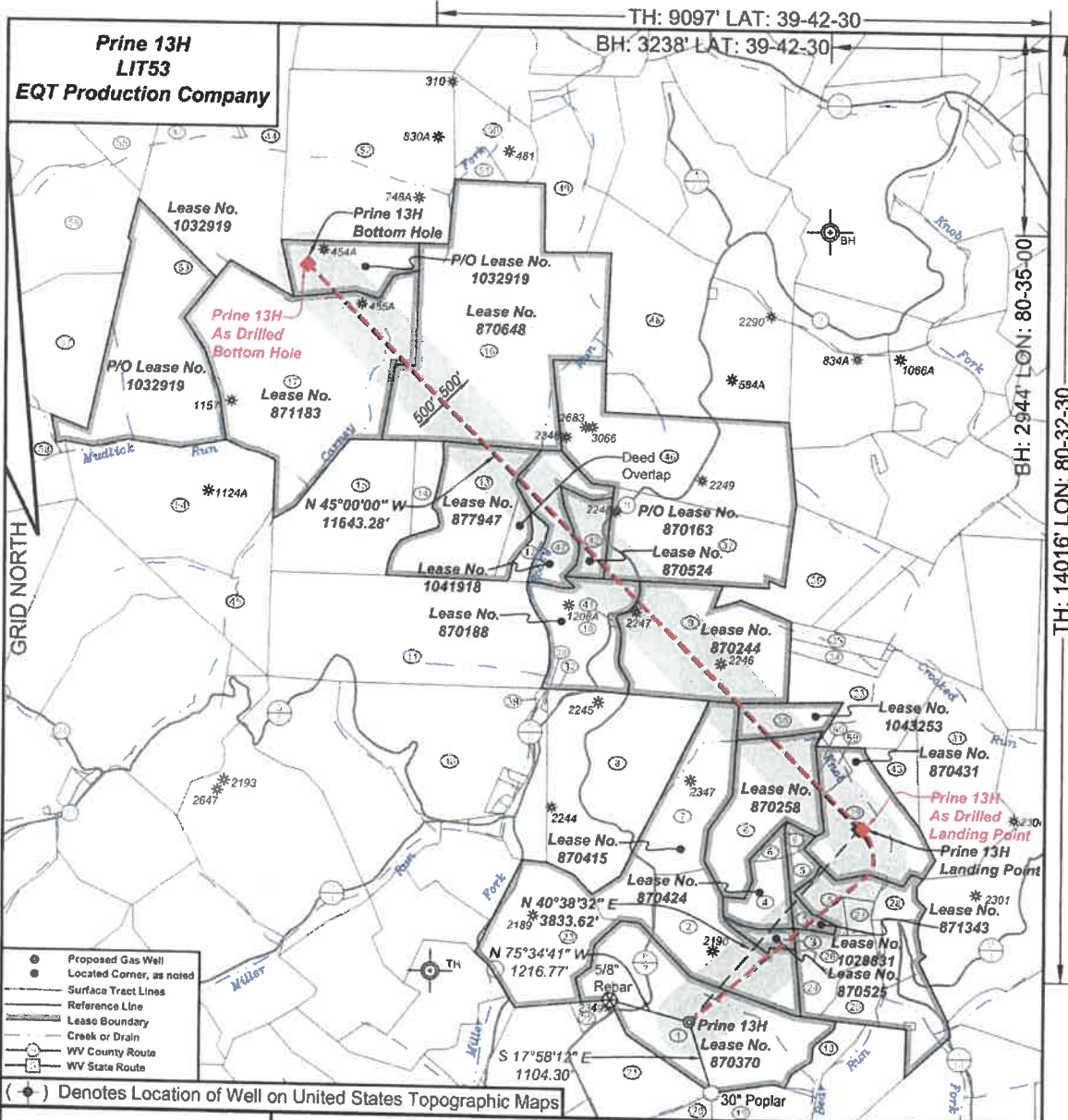
Logging Company GyroData
Address 73 Noblestown Road City Carnegie State PA Zip 15106

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

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

Well # Prine 13H (675545) Final Formations API# 47-103-03343				
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	1,047	1,047
Sewickley	1,047	1,047	1,053	1,053
Sand/Shale	1,053	1,053	1,148	1,148
Pittsburgh	1,148	1,148	1,154	1,154
Sand/Shale	1,154	1,154	2,412	2,403
Big Lime	2,412	2,403	2,523	2,512
Big Injun	2,523	2,512	2,790	2,774
Weir	2,790	2,774	3,190	3,164
Gordon	3,190	3,164	3,407	3,366
Baynard	3,407	3,366	5,846	5,260
Alexander	5,846	5,260	6,289	5,593
Elks	6,289	5,593	8,233	7,046
Sonyea	8,233	7,046	8,450	7,204
Middlesex	8,450	7,204	8,507	7,244
Genesee	8,507	7,244	8,631	7,324
Geneseo	8,631	7,324	8,668	7,346
Tully	8,668	7,346	8,712	7,370
Hamilton	8,712	7,370	9,142	7,498
Marcellus	9,142	7,498	20,827	7,507

09/09/2022



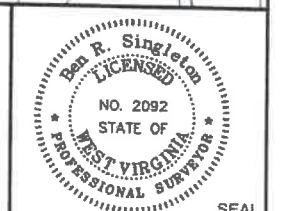
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

(⊕) 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 13H
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 19 20 21
OPERATOR'S WELL NO.: Prine 13H
API WELL NO
47 - 103 - 03343
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

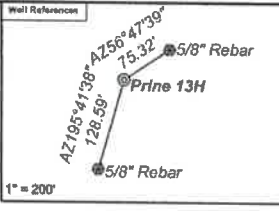
SURFACE OWNER: Howard M. Henderson ACREAGE: 112
ROYALTY OWNER: Jamie Joe Prine, et al. LEASE NO: 870370 ACREAGE: 111

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:

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

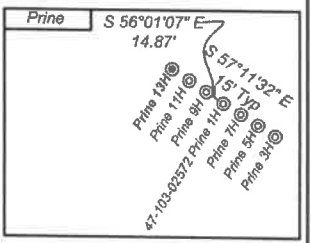
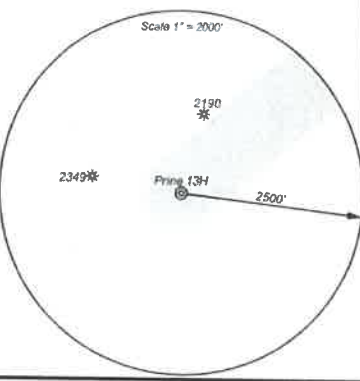
**Prine 13H
LIT53
EQT Production Company**



As Drilled Well Information:
Prine 13H coordinates are
NAD 27 N: 427,894.07 E: 1,697,682.38
NAD 83 UTM N: 4,391,211.19 E: 536,555.62
Prine 13H Kick Out Point coordinates are
NAD 27 N: 427,891.23 E: 1,697,680.47
NAD 83 UTM N: 4,391,210.31 E: 536,555.05
Prine 13H Landing Point coordinates are
NAD 27 N: 430,801.85 E: 1,700,239.27
NAD 83 UTM N: 4,392,110.11 E: 537,319.86
Prine 13H Bottom Hole coordinates are
NAD 27 N: 439,033.41 E: 1,691,943.41
NAD 83 UTM N: 4,394,575.66 E: 534,750.61
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 L.D.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	6	43	Wetzel	Center	Howard M. Henderson	112.00
2	6	44	Wetzel	Center	William D. Henderson	45.00
3	6	45	Wetzel	Center	Howard Henderson	5.00
4	6	31.1	Wetzel	Center	Howard Henderson	18.43
5	6	53	Wetzel	Center	Ashley Murphy, et al	20.36
6	6	31	Wetzel	Center	Howard Henderson	84.78
7	6	20	Wetzel	Center	Howard M. & Wilkins D. Henderson	47.00
8	6	28	Wetzel	Center	Mathew J. Rice	109.00
9	6	13	Wetzel	Center	Howard M. Henderson	61.50
10	6	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	37.00
11	6	7	Wetzel	Center	EQT Production Company	150.00
12	6	3.1	Wetzel	Center	Dalson Lumber Inc	16.68
13	6	2	Wetzel	Center	EQT Production Company	72.43
14	5	24	Wetzel	Center	EQT Production Company	12.20
15	4	1	Wetzel	Center	EQT Production Company	81.58
16	5	15	Wetzel	Center	Howard M. Henderson	239.50
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 R. & Mangle L. Montgomery	52.00
20	11	6.1	Wetzel	Center	Larry L. & Lois J. Dorn	24.50
21	11	6	Wetzel	Center	Ray S. & Timmy R. Sapp	80.50
22	11	6.2	Wetzel	Center	Roger L. & Sandra K. Wade	4.00
23	8	42	Wetzel	Center	Jeffrey P. & Howard M. Henderson	61.00
24	8	65	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	9	52	Wetzel	Center	Ashley Murphy, et al	3.35
28	0	31	Wetzel	City	Howard M. Henderson	8.20
29	0	50	Wetzel	Center	Ashley Murphy, et al	47.26
30	8	30	Wetzel	Center	Howard M. Henderson	15.20
31	5	56	Wetzel	City	Riverside Developers Association	81.76
32	9	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	99.23
37	6	4	Wetzel	Center	Howard M. Henderson	50.00
38	9	29	Wetzel	Center	Evan H. & Janet L. Beckinger	0.25
39	8	29	Wetzel	Center	Evan H. & Janet L. Beckinger	0.44
40	0	17	Wetzel	Center	Evan H. & Janet L. Beckinger	61.00
41	8	10	Wetzel	Center	Howard M. Henderson	169 x 250
42	9	3	Wetzel	Center	Howard M. Henderson	36.00
43	6	60	Wetzel	Center	James G. Smith	11.05
44	5	3.2	Wetzel	Center	Larry G. & Jess L. Rine	82.40
45	8	6	Wetzel	Center	David Wood	44.00
46	5	29	Wetzel	Center	Howard M. Henderson	125.14
47	5	3.1	Wetzel	Center	Larry G. & Jess L. Rine	88.00
48	9	29	Wetzel	Center	Terry J. Fisher	182.00
49	5	16	Wetzel	Center	Jack A. & Laura A. Carbaugh	37.60
50	5	8	Wetzel	Center	None	None
51	0	5	Wetzel	Center	William E. & Wilkins J. Renner	8.10
52	6	4	Wetzel	Center	William E. Renner	148.24
53	5	14	Wetzel	Center	Beggsman E. Yacher	224.60
54	5	22	Wetzel	Center	Mike Russ Inc	103.75
55	5	2	Wetzel	Center	Susan Miller, et al	40.00
56	6	13	Wetzel	Center	Susan Miller, et al	60.00
57	5	21	Wetzel	Center	Susan Miller, et al	89.25
58	4	52	Wetzel	Center	James L. Mangrove, et al	157.72
59	8	51	Wetzel	Center	Howard M. Henderson	4.00
60	8	80	Wetzel	Center	Howard M. Henderson	0.72

Lease No.	Owner	Acres
870415	Howard Henderson, et al	189
870525	Nancy E. Joliffe	5.5
870424	Nancy E. Joliffe, et al	26
871343	Thomas J. Iacoboni, et al	4.75
1028831	AMP Fund III, LP, et al	132.6
870431	Mary Kathleen Moore, et al	52
870258	Glen E. Burnette, Jr., et al	59
1043253	BRC Minerals LP & BRC Appalachian Minerals I LLC, et al	59
870244	Howard Henderson, et al	91.5
870188	Carol Louise Saunik Eltringham	57
870163	Howard Henderson, et al	321.79
870524	Green Dot Farm, Inc.	12
1041918	Ronald R. Reiter, et al	26.89
877947	EQT Production Company, et al	72
870648	Delorse A. Homer, et al	226
871183	Oakey Ray Long & Joyce Lee Long, et al	172.5
1032919	Benjamin Yarbber, et ux.	136.595184 of 224

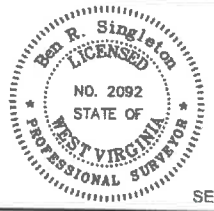


Proposed Gas Well
Located Corner, as noted
Surface Tract Lines
Reference Line
Lease Boundary
Creek or Drain
WV County Route
WV State Route



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P.S. 2092



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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
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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: _____
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	10/08/2021	20706.0	20528	40	Marcellus
3	10/09/2021	20510.0	20330	40	Marcellus
4	10/09/2021	20312.0	20132	40	Marcellus
5	10/10/2021	20111.0	19934	40	Marcellus
6	10/11/2021	19912.0	19736	40	Marcellus
7	10/12/2021	19718.0	19538	40	Marcellus
8	10/12/2021	19516.0	19340	40	Marcellus
9	10/13/2021	19322.0	19142	40	Marcellus
10	10/14/2021	19122.0	18944	40	Marcellus
11	10/16/2021	18923.0	18746	40	Marcellus
12	10/16/2021	18726.0	18548	40	Marcellus
13	10/17/2021	18528.0	18350	40	Marcellus
14	10/18/2021	18332.0	18152	40	Marcellus
15	10/19/2021	18134.0	17954	40	Marcellus
16	10/19/2021	17936.0	17756	40	Marcellus
17	10/20/2021	17738.0	17558	40	Marcellus
18	10/20/2021	17540.0	17360	40	Marcellus
19	10/21/2021	17338.0	17162	40	Marcellus
20	10/22/2021	17144.0	16964	40	Marcellus
21	10/22/2021	16946.0	16766	40	Marcellus
22	10/23/2021	16746.1	16568	40	Marcellus
23	10/24/2021	16550.0	16370	40	Marcellus
24	10/24/2021	16352.0	16172	40	Marcellus
25	10/25/2021	16150.1	15973	40	Marcellus
26	10/26/2021	15954.0	15774	40	Marcellus
27	10/26/2021	15755.0	15575	40	Marcellus
28	10/27/2021	15555.4	15376	40	Marcellus
29	10/28/2021	15356.3	15177	40	Marcellus
30	10/28/2021	15158.0	14978	40	Marcellus
31	10/29/2021	14959.0	14779	40	Marcellus
32	10/31/2021	14760.0	14580	40	Marcellus
33	11/01/2021	14561.0	14381	40	Marcellus
34	11/01/2021	14362.0	14182	40	Marcellus
35	11/02/2021	14163.0	13983	40	Marcellus
36	11/02/2021	13964.0	13784	40	Marcellus
37	11/03/2021	13765.0	13585	40	Marcellus
38	11/05/2021	13562.0	13386	40	Marcellus
39	11/05/2021	13367.0	13187	40	Marcellus
40	11/06/2021	13168.0	12988	40	Marcellus
41	11/06/2021	12966.0	12789	40	Marcellus
42	11/06/2021	12770.0	12590	40	Marcellus
43	11/07/2021	12568.0	12391	40	Marcellus

44	11/07/2021	12372.0	12192	40	Marcellus
45	11/08/2021	12169.0	11993	40	Marcellus
46	11/08/2021	11974.0	11794	40	Marcellus
47	11/09/2021	11773.0	11595	40	Marcellus
48	11/09/2021	11573.0	11396	40	Marcellus
49	11/10/2021	11374.0	11197	40	Marcellus
50	11/12/2021	11175.0	10998	40	Marcellus
51	11/12/2021	10976.0	10799	40	Marcellus
52	11/12/2021	10776.0	10600	40	Marcellus
53	11/13/2021	10578.0	10401	40	Marcellus
54	11/13/2021	10378.0	10202	40	Marcellus
55	11/13/2021	10181.0	10003	40	Marcellus
56	11/14/2021	9980.0	9804	40	Marcellus
57	11/14/2021	9783.0	9605	40	Marcellus
58	11/15/2021	9584.0	9406	40	Marcellus
59	11/15/2021	9384.0	9207	40	Marcellus
60	11/15/2021	9186.0	9008	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	10/08/2021	79	8738	7582	4846	176506	7722	
2	10/09/2021	97	9185	5811	4735	440659	10174	
3	10/09/2021	100	9130	4938	5334	440113	10109	
4	10/10/2021	98	9268	5329	5662	440355	10085	
5	10/11/2021	99	9287	5183	5048	440378	10073	
6	10/12/2021	97	9377	5230	5044	440001	10009	
7	10/12/2021	98	9254	5134	5009	440641	10055	
8	10/13/2021	99	9344	5085	4991	440027	9936	
9	10/13/2021	98	9273	5067	5155	440070	10007	
10	10/16/2021	99	9392	5344	4222	440025	9963	
11	10/16/2021	97	9269	5442	5476	440022	9969	
12	10/17/2021	98	9396	5497	5191	440000	9986	
13	10/18/2021	98	9374	5718	4940	440130	9923	
14	10/19/2021	100	9345	5544	4779	440104	9879	
15	10/19/2021	100	9392	5330	4796	440254	9889	
16	10/20/2021	97	9376	5686	4629	440082	9863	
17	10/20/2021	96	9365	5754	5076	440550	9938	
18	10/21/2021	98	9345	5753	5478	440050	9841	
19	10/22/2021	94	9395	6052	4967	440706	9969	
20	10/22/2021	91	9163	6173	4746	440182	9994	
21	10/23/2021	93	9290	6230	5817	440101	9865	
22	10/24/2021	96	9381	6353	6151	440134	9918	
23	10/24/2021	95	9338	6298	5525	440272	9849	
24	10/25/2021	96	9319	6116	6015	440006	9832	
25	10/26/2021	91	9389	6334	5635	440048	9940	
26	10/26/2021	91	9376	6466	5133	440405	9853	
27	10/27/2021	95	9292	6368	5203	440412	9879	
28	10/28/2021	99	9136	6641	5729	440286	9870	
29	10/28/2021	95	9371	6468	5272	440003	9973	
30	10/29/2021	98	9338	6325	5325	440147	9976	
31	10/30/2021	83	9256	6574	5532	440179	9705	
32	11/01/2021	100	9305	6383	5160	440095	9737	
33	11/01/2021	100	9296	5954	5196	440046	9728	
34	11/02/2021	101	9304	6491	5068	440480	9686	
35	11/02/2021	100	9288	6402	4835	440283	9707	
36	11/03/2021	100	9270	6199	4868	440347	9632	
37	11/03/2021	98	9285	5913	6030	440794	10249	
38	11/05/2021	100	9178	5759	4258	440102	9744	
39	11/06/2021	100	9278	5899	5244	440537	9720	
40	11/06/2021	100	9101	5834	4867	440537	9646	
41	11/06/2021	100	9196	5919	4894	440131	9634	
42	11/07/2021	100	9166	5912	4636	440094	9586	

43	11/07/2021	100	9200	5946	4812	440022	9673
44	11/08/2021	100	9000	5699	5719	440272	9588
45	11/08/2021	100	9110	5544	4646	440157	9580
46	11/09/2021	100	9070	5699	5503	440521	9603
47	11/09/2021	100	8908	5663	4763	440532	9584
48	11/10/2021	100	8984	5682	4945	440083	9596
49	11/12/2021	100	8902	5640	4946	440140	9592
50	11/12/2021	101	8642	5704	4828	441279	9591
51	11/12/2021	100	8598	5647	5004	440008	9614
52	11/13/2021	100	8591	5507	4777	440042	9549
53	11/13/2021	101	8609	5543	5117	440010	9601
54	11/13/2021	100	8608	5762	4416	440049	9565
55	11/14/2021	101	8478	5523	4675	440001	9651
56	11/14/2021	100	8648	5464	4650	440115	9612
57	11/15/2021	100	8541	5455	4727	440056	9594
58	11/15/2021	100	8442	5548	5206	440001	9604
59	11/15/2021	100	8287	5647	4838	440002	9541
60	11/16/2021	100	8541	5736	4571	440004	9478

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:	47-103-03343-00-00
Operator Name:	EQT Production
Well Name and Number:	Pine 13H
Latitude:	39.66993600
Longitude:	-80.57379190
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,535
Total Base Water Volume (gal):	24,600,618
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	732-18-5	100.0000	88.53986	None
Sand (Proppant)	EQT	Proppant	Silica Substrate	14808-60-7	100.0000	11.27798	None
Clearal 268	ChemStream	Bicide	Non-hazardous substances	Proprietary	80.0000	0.00902	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.0000	0.00760	None
FR-9800	ChemStream	Friction Reducer	Non-hazardous substances	Proprietary	30.0000	0.00754	None
FR-9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	20.0000	0.00335	None
HCl	Beusa Holdings, Inc. dba Evolution Well Services Operating, LLC.	Acid	Petroleum Distillate	64742-47-8	15.0000	0.00167	None
Clearal 268	ChemStream	Bicide	Hydrogen Chloride	7647-01-0	20.0000	0.00056	None
			Glutaraldehyde	111-30-8			



Propylene Glycol Solution	Downing	None					
Flexhib 166	Evolution	Acid Corrosion Inhibitor	Methanol	67-56-1	90.00000	0.00018	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
Ferriplex 66	Evolution	Iron Control	Acetic Acid	000064-19-7	50.00000	0.00005	None
FR-9800	ChemStream	Friction Reducer	Oleic Acid Diethanolamide	93-83-4	2.00000	0.00003	None
FR-9800	ChemStream	Friction Reducer	Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00003	None
Ferriplex 66	Evolution	Iron Control	Citric Acid	000077-92-9	30.00000	0.00002	None
Clearal 268	ChemStream	Biocide	Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
FR-9800	ChemStream	Friction Reducer	Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00001	None
Clearal 268	ChemStream	Biocide	Ethanol	64-17-5	1.50000	0.00000	None
Flexhib 166	Evolution	Acid Corrosion Inhibitor					
Flexhib 166	Evolution	Acid Corrosion Inhibitor	Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00000	None
			Propargyl alcohol	107-19-7	5.00000	0.00000	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.

* 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)



May 12, 2021

Matthew Hardt
11306 Clubhouse Rd
Presto, PA 15142

Mr. Hardt,

Please find enclosed a mylar copy of the Prine 13H As Drilled plat.

Thanks,
Ben Singleton

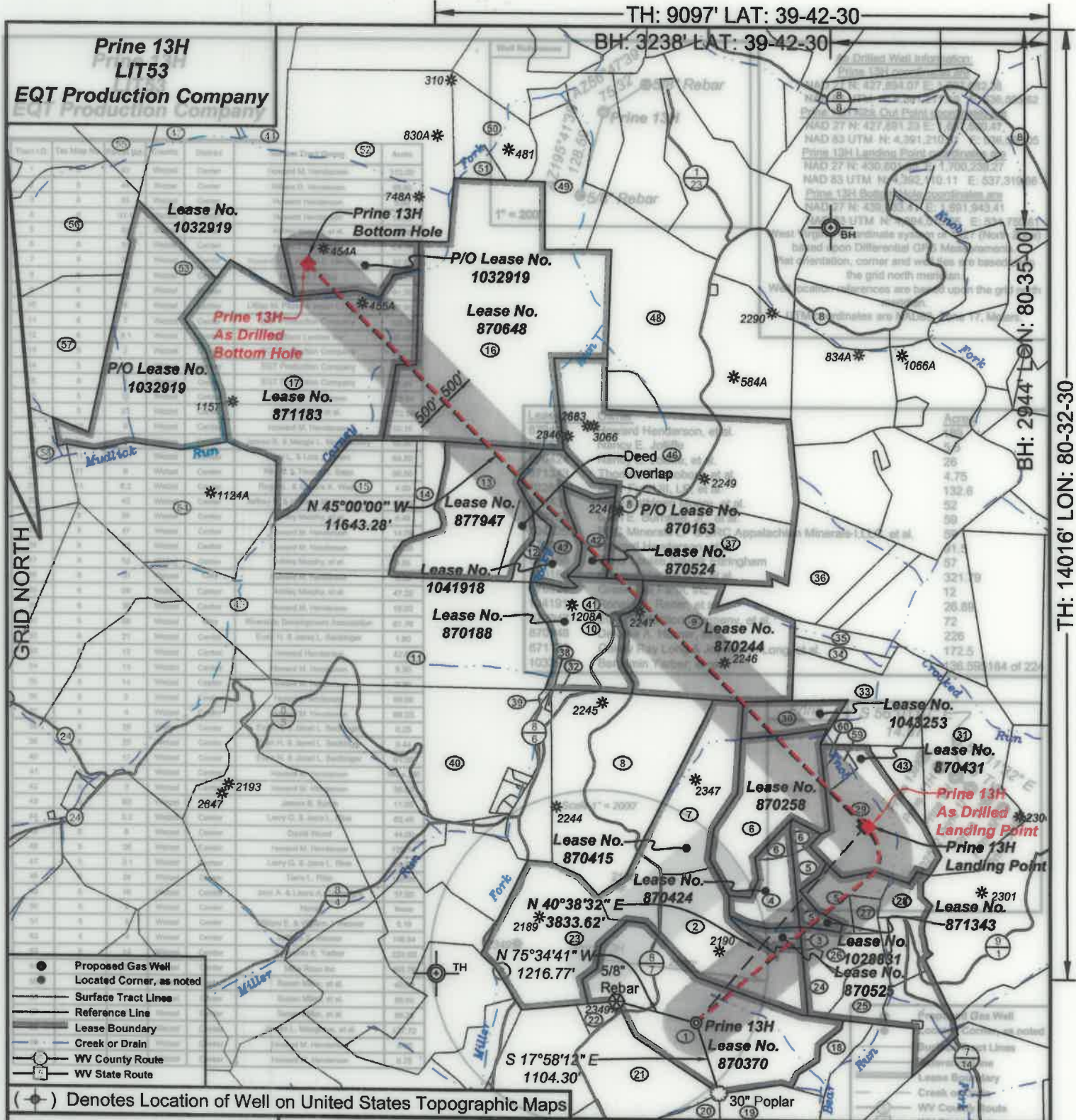
BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606 fax: 304-649-8608

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 13H
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 12 20 21
OPERATOR'S WELL NO.: Prine 13H
API WELL NO: 47 - 103
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: 09/09/2022

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



May 20, 2021

Matthew Hardt
11306 Clubhouse Rd
Presto, PA 15142

Mr. Hardt,

Please find enclosed a mylar copy of the revised Prine 13H 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

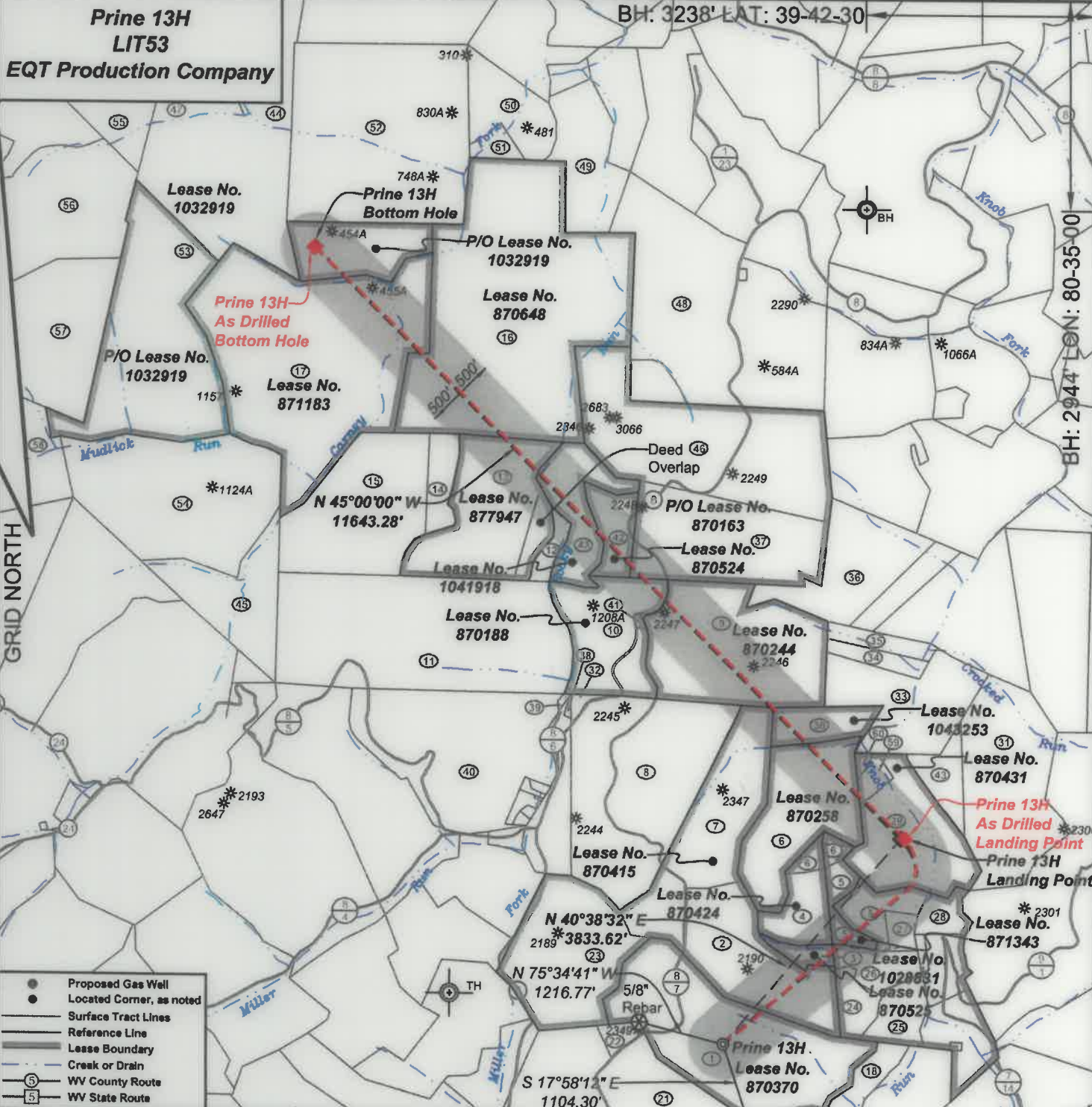
09/09/2022

TH: 9097' LAT: 39-42-30

BH: 3238' LAT: 39-42-30

BH: 2944' LON: 80-35-00

TH: 14016' LON: 80-32-30



- 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: 289-16
DRAWING NO: Prine 13H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

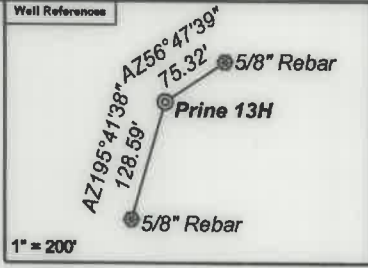
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 19 20 21
OPERATOR'S WELL NO.: Prine 13H
API WELL NO
47 - 103 - 03343
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:

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

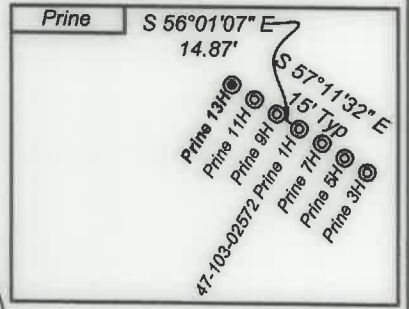
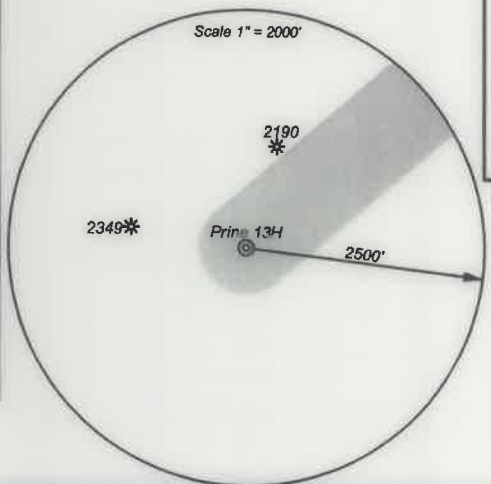
**Prine 13H
LIT53
EQT Production Company**



As Drilled Well Information:
Prine 13H coordinates are
 NAD 27 N: 427,894.07 E: 1,697,682.38
 NAD 83 UTM N: 4,391,211.19 E: 536,555.62
Prine 13H Kick Out Point coordinates are
 NAD 27 N: 427,891.23 E: 1,697,680.47
 NAD 83 UTM N: 4,391,210.31 E: 536,555.05
Prine 13H Landing Point coordinates are
 NAD 27 N: 430,801.85 E: 1,700,239.27
 NAD 83 UTM N: 4,392,110.11 E: 537,319.86
Prine 13H Bottom Hole coordinates are
 NAD 27 N: 439,033.41 E: 1,691,943.41
 NAD 83 UTM N: 4,394,575.66 E: 534,750.61
 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	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	64.76
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	91.50
10	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	57.00
11	8	7	Wetzel	Center	EQT Production Company	150.00
12	8	3.1	Wetzel	Center	Dallison Lumber Inc	15.66
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. Sepp	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	5	50	Wetzel	Clay	Riverside Development Association	81.76
32	8	27	Wetzel	Center	Evan H. & Janet L. Backinger	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	60.23
38	8	26	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	180 x 250
42	8	3	Wetzel	Center	Howard M. Henderson	38.00
43	8	60	Wetzel	Center	James B. Burch	11.00
44	5	3.2	Wetzel	Center	Larry G. & Jana L. Rine	62.40
45	8	6	Wetzel	Center	David Wood	44.00
46	5	26	Wetzel	Center	Howard M. Henderson	125.14
47	5	3.1	Wetzel	Center	Larry G. & Jana L. Rine	68.80
48	5	28	Wetzel	Center	Terry L. Riter	182.00
49	5	19	Wetzel	Center	Jack A. & Laura A. Cartwright	37.60
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	Mika Ross Inc	103.75
55	5	2	Wetzel	Center	Susan Miller, et al.	40.00
56	5	13	Wetzel	Center	Susan Miller, et al.	60.00
57	5	21	Wetzel	Center	Susan Miller, et al.	60.25
58	4	52	Wetzel	Center	James L. Musgrave, et al.	127.72
59	8	51	Wetzel	Center	Howard M. Henderson	4.00
60	8	50	Wetzel	Center	Howard M. Henderson	0.75

Lease No.	Owner	Acres
870415	Howard Henderson, et al.	189
870525	Nancy E. Jolliffe	5.5
870424	Nancy E. Jolliffe, et al.	26
871343	Thomas J. Iacoboni, et al.	4.75
1028831	AMP Fund III, LP, et al.	132.6
870431	Mary Kathleen Moore, et al.	52
870258	Glen E. Burnette, Jr., et al.	59
1043253	BRC Minerals LP & BRC Appalachian Minerals I LLC, et al.	59
870244	Howard Henderson, et al.	91.5
870188	Carol Louise Saunik Eltringham	57
870163	Howard Henderson, et al.	321.79
870524	Green Dot Farm, Inc.	12
1041918	Ronald R. Reiter, et al.	26.89
877947	EQT Production Company, et al.	72
870648	Delorse A. Homer, et al.	226
871183	Oakey Ray Long & Joyce Lee Long, et al.	172.5
1032919	Benjamin Yarber, et ux.	136.595184 of 224



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



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 API WELL NO
 47 - 103 - 03343
 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: 102
 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
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH:

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