

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: LIT53 5H (675541)

API: 47 - 103 - 03356

Submission: Initial Amended

Notes:

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

Reviewed

Thomas 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 47-103-03356 County Wetzel District Center
Quad Littleton Pad Name Prine Field/Pool Name N/A
Farm name Howard M. Henderson Well Number LIT53 5H (675541)
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 4,391,199.13 Easting 536,575.03
Landing Point of Curve Northing 4,392,044.86 Easting 535,612.97
Bottom Hole Northing 4,394,659.07 Easting 532,913.39

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 13.7 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 05/12/2021
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 - 03356 Farm name Howard M. Henderson Well number LIT53 5H (675541)

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"	1287'	NEW	J-55 54.5#	798'	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2887'	NEW	P-110 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-1/2"	5-1/2"	21,460'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1315' 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	1058	16.0	1.13	1195	0	8
Coal							
Intermediate 1	CLASS A	925	15.6	1.18	1091	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4150	15.2	1.15	4772	1315	8+
Tubing							

Drillers TD (ft) 21,481' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 1449'

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 1181' _____

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 - 03356 Farm name Howard M. Henderson Well number LIT53 5H (675541)

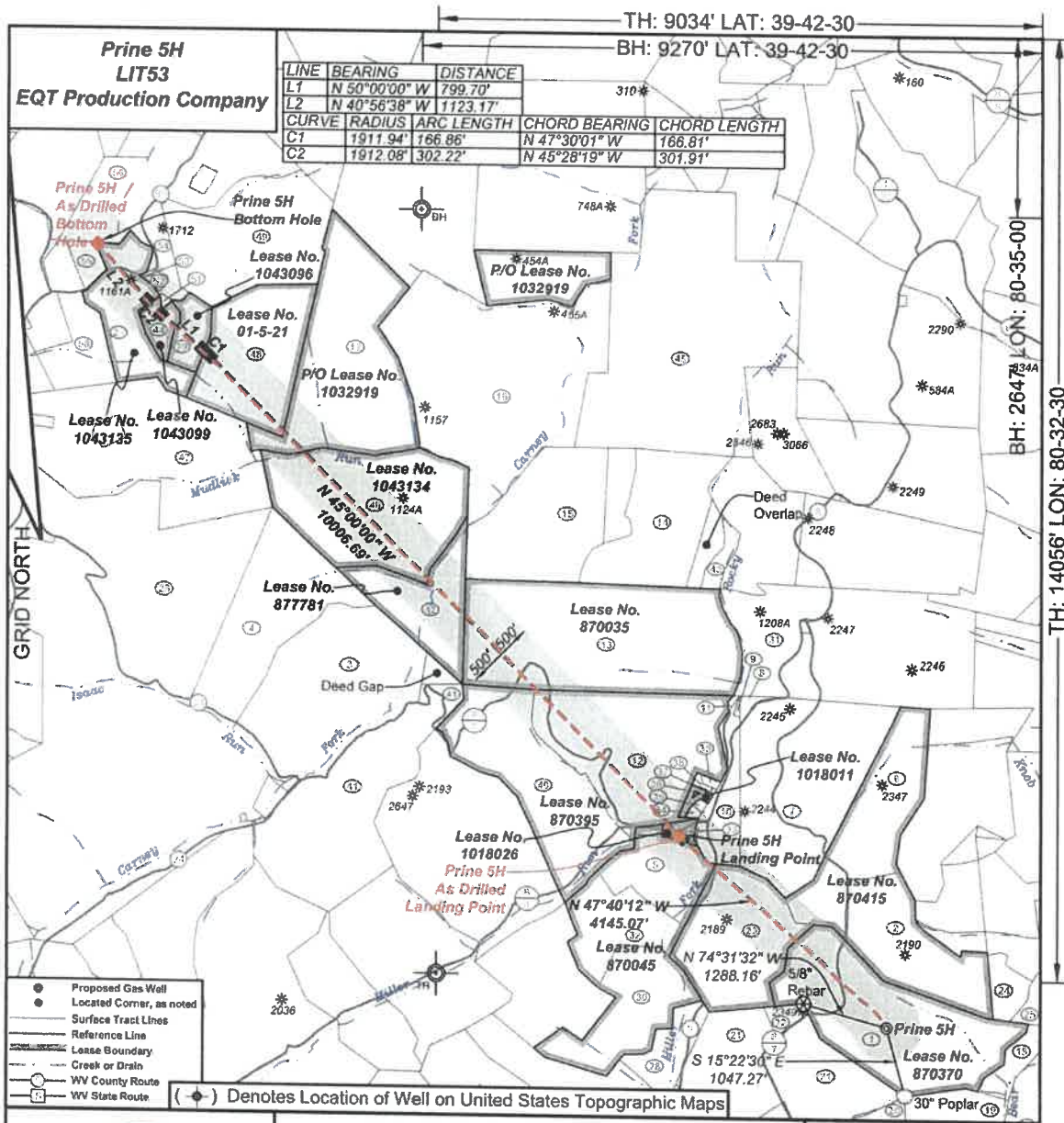
Drilling Contractor Falcon (Rig 25)
Address 1120 US-119 City Indiana State PA Zip 15701

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

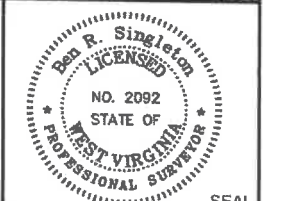
Stimulating Company Evolution Well Services
Address 1780 Hughes Landing Blvd City The Woodlands State TX Zip 77380

Well # Prine 5H (675541) Final Formations API# 47-103-03356				
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	2,402
Big Lime	2,412	2,402	2,523	2,510
Big Injun	2,523	2,510	2,790	2,770
Weir	2,790	2,770	3,190	3,161
Gordon	3,190	3,161	3,407	3,364
Baynard	3,407	3,364	5,846	5,239
Alexander	5,846	5,239	6,289	5,569
Elks	6,289	5,569	8,258	7,029
Sonyea	8,258	7,029	8,468	7,186
Middlesex	8,468	7,186	8,522	7,227
Genesee	8,522	7,227	8,632	7,307
Geneseo	8,632	7,307	8,665	7,329
Tully	8,665	7,329	8,702	7,353
Hamilton	8,702	7,353	8,910	7,450
Marcellus	8,910	7,450	21,481	7,480



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 5H
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

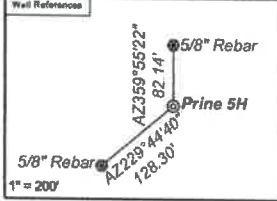
DATE: May 13 20 21
OPERATOR'S WELL NO.: Prine 5H
API WELL NO
47 - 103 - 03356
STATE COUNTY PERMIT

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

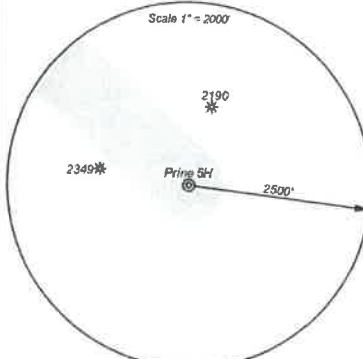
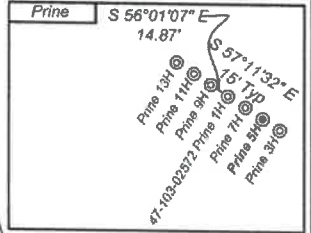
**Prine 5H
LIT53
EQT Production Company**



As Drilled Well Information:
 Prine 5H coordinates are:
 NAD 27 N: 427,853.43 E: 1,697,745.41
 NAD 83 UTM N: 4,391,199.13 E: 536,575.03
 Prine 5H Kick Out Point coordinates are:
 NAD 27 N: 427,842.58 E: 1,697,769.04
 NAD 83 UTM N: 4,391,195.94 E: 536,582.28
 Prine 5H Landing Point coordinates are:
 NAD 27 N: 430,681.43 E: 1,694,634.77
 NAD 83 UTM N: 4,392,044.86 E: 535,612.97
 Prine 5H Bottom Hole coordinates are:
 NAD 27 N: 439,407.96 E: 1,685,919.36
 NAD 83 UTM N: 4,394,659.07 E: 532,913.39
 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	85.00
3	7	7	Wetzel	Center	Charles D. Wood	106.27
4	7	0.4	Wetzel	Center	Rocky A. & Carol A. Yeater	149.00
5	8	40.1	Wetzel	Center	Robert E. Dorsey, Sr	38.00
6	8	25	Wetzel	Center	Howard M. & William D. Henderson	87.00
7	8	08	Wetzel	Center	Matthew J. Rice	108.00
8	8	27	Wetzel	Center	Evan H. & Janet L. Beckinger	1.80
9	8	26	Wetzel	Center	Evan H. & Janet L. Beckinger	0.25
10	8	24	Wetzel	Center	Charles P. & Franey P. Wade	19.44
11	8	25	Wetzel	Center	Evan H. & Janet L. Beckinger	0.44
12	8	17	Wetzel	Center	Evan H. & Janet L. Beckinger	01.00
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	6	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. & Ella J. Damm	94.53
21	11	8	Wetzel	Center	Ray B. & Jimmy R. Epps	00.50
22	11	8.2	Wetzel	Center	Roger L. & Sandra K. Wada	4.00
23	8	42	Wetzel	Center	Jeffrey P. & Howard M. Henderson	07.00
24	8	55	Wetzel	Center	Ashley Sharpy, et al	9.43
25	8	47	Wetzel	Center	Howard M. Henderson	14.75
26	7	8	Wetzel	Center	William J. Damm	192.21
27	4	35	Wetzel	Center	Steve Long	34.25
28	11	5.1	Wetzel	Center	Robert E. Dorsey, Sr.	20.00
29	4	35.7	Wetzel	Center	Robert L. Long, et al	13.00
30	8	30	Wetzel	Center	Robert E. Dorsey, Sr	58.00
31	8	2	Wetzel	Center	Lillian M. Pitzer & Jason L. Wight	57.00
32	8	40	Wetzel	Center	Robert E. Dorsey, Sr.	24.00
33	8	21	Wetzel	Center	Charles P. & Franey P. Wade	3.00
34	8	22	Wetzel	Center	William R. White	0.88
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	Marveth R. Morris, et al	0.10
38	8	18	Wetzel	Center	William R. White	1.00
39	8	10	Wetzel	Center	William R. White	0.58
40	9	16	Wetzel	Center	Evan H. & Janet L. Beckinger	79.30
41	8	36	Wetzel	Center	Kenneth J. Harbaugh	87.00
42	8	6	Wetzel	Center	David Wood	44.00
43	8	5.1	Wetzel	Center	Dalton Lumber Inc	15.08
44	4	35.8	Wetzel	Center	Robert L. Long	0.00
45	5	15	Wetzel	Center	Howard M. Henderson	238.00
46	5	22	Wetzel	Center	Mike Rose Inc	103.75
47	4	52	Wetzel	Center	Jamies L. Musgrave, et al	127.72
48	5	21	Wetzel	Center	Susan Miller, et al.	69.75
49	5	13	Wetzel	Center	Susan Miller, et al	80.00
50	4	35.1	Wetzel	Center	Steve Long	35.77
51	4	35.9	Wetzel	Center	Elban Wayman	0.49
52	4	35.8	Wetzel	Center	Roger & Kitae Long	1.14
53	4	36	Wetzel	Center	Christian Church	
54	4	35.2	Wetzel	Center	Rodger S. Long	13.28
55	4	35.6	Wetzel	Center	Charles Prad Musgrave, et al.	5.71
56	4	25	Wetzel	Center	Susan L. & John F. Thomas	30.20

Lease No.	Owner	Acres
870415	Howard Henderson, et al	189
870045	Green Dot Farm, Inc., et al	125
1018026	Charles P. Wade II, et ux	3
1018011	Diana Dawn Van Horn, et al.	2.87
870395	Brian R. Morgan, et al.	170
870035	Stone Hill Minerals Holdings, LLC, et al.	150
877781	David & Imogene Wood	44
1043134	Kathleen O'Grady	103.75
1032919	Benjamin Yarber, et ux	136.595184 of 224
1-5-21	Susan Miller, et al.	69.25
1043096	Mary Gallo, et al.	13
1043099	Mary Gallo, et al.	9
1043135	Mary Gallo, et al.	34.250

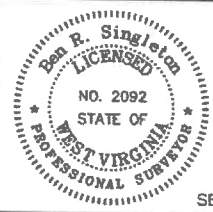


- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route



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Ben R. Singleton
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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	21364.3	21206	36	Marcellus
3	11/19/2021	21181.0	21028	36	Marcellus
4	11/19/2021	21008.8	20830	40	Marcellus
5	11/19/2021	20808.0	20632	40	Marcellus
6	11/20/2021	20612.2	20434	40	Marcellus
7	11/21/2021	20414.1	20236	40	Marcellus
8	11/22/2021	20211.0	20038	40	Marcellus
9	11/23/2021	20017.0	19840	40	Marcellus
10	11/24/2021	19822.0	19642	40	Marcellus
11	11/24/2021	19621.4	19444	40	Marcellus
12	11/26/2021	19426.0	19246	40	Marcellus
13	11/27/2021	19226.6	19048	40	Marcellus
14	11/28/2021	19030.0	18850	40	Marcellus
15	11/28/2021	18829.2	18652	40	Marcellus
16	11/29/2021	18634.0	18454	40	Marcellus
17	11/29/2021	18436.0	18256	40	Marcellus
18	11/30/2021	18234.6	18058	40	Marcellus
19	12/01/2021	18040.0	17860	40	Marcellus
20	12/01/2021	17842.0	17662	40	Marcellus
21	12/02/2021	17644.0	17464	40	Marcellus
22	12/02/2021	17446.0	17266	40	Marcellus
23	12/03/2021	17248.0	17068	40	Marcellus
24	12/03/2021	17050.0	16870	40	Marcellus
25	12/04/2021	16852.0	16672	40	Marcellus
26	12/05/2021	16654.0	16474	40	Marcellus
27	12/05/2021	16456.0	16276	40	Marcellus
28	12/06/2021	16258.0	16078	40	Marcellus
29	12/07/2021	16060.0	15880	40	Marcellus
30	12/08/2021	15862.0	15682	40	Marcellus
31	12/08/2021	15664.0	15484	40	Marcellus
32	12/08/2021	15457.0	15286	40	Marcellus
33	12/09/2021	15268.0	15088	40	Marcellus
34	12/09/2021	15064.0	14890	40	Marcellus
35	12/10/2021	14872.0	14692	40	Marcellus
36	12/10/2021	14672.0	14494	40	Marcellus
37	12/10/2021	14470.0	14296	40	Marcellus
38	12/11/2021	14278.0	14098	40	Marcellus
39	12/11/2021	14080.0	13900	40	Marcellus
40	12/11/2021	13877.0	13702	40	Marcellus
41	12/12/2021	13684.0	13504	40	Marcellus
42	12/12/2021	13486.0	13306	40	Marcellus
43	12/13/2021	13284.0	13108	40	Marcellus

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44	12/13/2021	13090.0	12910	40	Marcellus
45	12/13/2021	12888.0	12712	40	Marcellus
46	12/14/2021	12694.0	12514	40	Marcellus
47	12/14/2021	12496.0	12316	40	Marcellus
48	12/14/2021	12294.1	12118	40	Marcellus
49	12/15/2021	12095.4	11920	40	Marcellus
50	12/15/2021	11900.0	11722	40	Marcellus
51	12/16/2021	11700.2	11524	40	Marcellus
52	12/16/2021	11506.0	11326	40	Marcellus
53	12/16/2021	11305.0	11128	40	Marcellus
54	12/16/2021	11106.6	10930	40	Marcellus
55	12/16/2021	10907.5	10732	40	Marcellus
56	12/17/2021	10711.0	10534	40	Marcellus
57	12/17/2021	10514.0	10336	40	Marcellus
58	12/17/2021	10317.0	10138	40	Marcellus
59	12/17/2021	10117.7	9940	40	Marcellus
60	12/17/2021	9919.0	9742	40	Marcellus
61	12/18/2021	9720.6	9544	40	Marcellus
62	12/18/2021	9523.0	9346	40	Marcellus
63	12/18/2021	9325.0	9148	40	Marcellus
64	12/19/2021	9128.0	8950	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 (bbbls)	Amount of Nitrogen/other (units)
1	11/18/2021	90	9354	6309	4604	176173	4140	
2	11/18/2021	92	9342	6040	5528	396011	9164	
3	11/19/2021	93	9365	5935	5191	396015	9042	
4	11/19/2021	94	9384	5810	4431	440125	9935	
5	11/20/2021	98	9366	5712	5441	440001	9939	
6	11/21/2021	94	9358	6212	5371	440000	9996	
7	11/22/2021	94	9385	6003	4940	440088	9915	
8	11/23/2021	95	9393	5794	4950	440057	9903	
9	11/23/2021	94	9368	5978	4850	440046	9858	
10	11/24/2021	96	9366	5800	5091	440867	9934	
11	11/26/2021	96	9340	5667	5746	440012	9950	
12	11/27/2021	98	9322	5827	6009	440296	9877	
13	11/28/2021	95	9387	6071	5032	440106	9865	
14	11/28/2021	96	9375	6264	5760	440301	9857	
15	11/29/2021	98	9397	6321	5057	440148	9903	
16	11/29/2021	98	9396	6138	4940	440035	9839	
17	11/30/2021	100	9374	5777	5964	440132	9839	
18	12/01/2021	100	9259	5897	5265	440294	9841	
19	12/01/2021	100	9330	5901	4879	440081	9869	
20	12/02/2021	100	9381	5664	5603	440193	9912	
21	12/02/2021	98	9258	5928	4836	440535	9830	
22	12/03/2021	100	9285	5684	4818	440285	9801	
23	12/03/2021	100	9234	5720	5354	440344	9812	
24	12/04/2021	98	9188	5532	4877	440254	9824	
25	12/04/2021	100	9165	5208	4836	440211	9862	
26	12/05/2021	100	9293	5578	5103	440257	9769	
27	12/06/2021	100	9170	5533	4513	440367	9749	
28	12/07/2021	99	9025	5591	5581	440486	10480	
29	12/08/2021	100	9217	5270	5043	440474	9997	
30	12/08/2021	100	8979	5143	5650	440459	9707	
31	12/08/2021	100	9068	5476	5252	440181	9868	
32	12/09/2021	100	9025	5549	5285	440161	10550	
33	12/09/2021	100	9080	5630	5281	440015	9739	
34	12/10/2021	100	9243	5727	5689	440026	9839	
35	12/10/2021	98	8955	5672	5441	440006	9674	
36	12/10/2021	100	9268	5686	5771	440090	9781	
37	12/11/2021	100	9130	5336	5538	441301	10786	
38	12/11/2021	100	9106	5512	5659	440004	10504	
39	12/11/2021	100	9216	5683	5194	440064	9851	
40	12/12/2021	100	9254	5593	5277	440078	9651	
41	12/12/2021	100	9262	5707	5100	440016	9713	
42	12/13/2021	100	9196	5710	4919	440002	9739	

09/09/2022

43	12/13/2021	100	9108	5677	4732	440010	9629
44	12/13/2021	100	9155	5743	4720	440131	9669
45	12/14/2021	100	9187	4944	5188	440091	11599
46	12/14/2021	100	9282	6179	5138	440017	9587
47	12/14/2021	99	9240	5965	3998	440287	9575
48	12/15/2021	99	9368	5907	4696	440226	9650
49	12/15/2021	100	9271	4853	4896	440186	9643
50	12/16/2021	99	9334	5955	5008	440139	9687
51	12/16/2021	100	9262	5959	4267	440103	9669
52	12/16/2021	100	9127	3103	4965	440263	9639
53	12/16/2021	99	9292	6331	5002	440339	9574
54	12/16/2021	99	9031	6621	5141	440641	9587
55	12/17/2021	100	9135	6649	5192	440095	9569
56	12/17/2021	99	8951	3820	5064	440437	9565
57	12/17/2021	100	9154	3973	5034	440052	9540
58	12/17/2021	100	9112	5770	4477	440016	9529
59	12/17/2021	100	9020	7738	5321	440121	9529
60	12/18/2021	100	8917	6040	5055	440315	9548
61	12/18/2021	100	9007	5581	4585	440174	9489
62	12/18/2021	100	8752	6343	5034	440017	9648
63	12/19/2021	100	8935	5850	5057	440110	9937
64	12/20/2021	100	8933	6368	5100	440031	9489

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:	47-103-03356-00-00
Operator Name:	EQT Production
Well Name and Number:	Pine 5H
Latitude:	39.66982650
Longitude:	-80.57356620
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,508
Total Base Water Volume (gal):	26,143,110
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					
Sand (Proppant)	EQT	Proppant					
Clearal 268	ChemStream	Bicide	Silica Substrate	14808-60-7	100.00000	11.28948	None
FR-9800	ChemStream	Friction Reducer	Non-hazardous substances	Proprietary	80.00000	0.00898	None
FR-9800	ChemStream	Friction Reducer	Copolymer of 2-propenamide	Proprietary	30.00000	0.00761	None
SluMSTREAM SC-398	ChemStream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.00757	None
FR-9800	ChemStream	Friction Reducer	Petroleum Distillate	64742-47-8	20.00000	0.00338	None
HCl	Beusa Holdings, Inc. dba Evolution Well Services Operating, LLC.	Acid					
Clearal 268	ChemStream	Bicide	Hydrogen Chloride	7647-01-0	15.00000	0.00159	None
			Glutaraldehyde	111-30-8	20.00000	0.00056	None



Propylene Glycol Solution	Downing	None				
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Methanol	67-56-1	90.00000	0.00018None
ECM PP	ECM	Pipe On Pipe	Petroleum Naphtha	64742-47-8	80.00000	0.00017None
StimSTREAM SC-398	ChemStream	Scale Inhibitor	Bis(Hexamethylene Triamine Penta(Methylene Phosphonic Acid)(BHMT)	34690-00-1	10.00000	0.00009None
Ferplex 66	Evolution	Iron Control	Acetic Acid	000064-19-7	50.00000	0.00005None
FR-9800	ChemStream	Friction Reducer	Oleic Acid Diethanolamide	93-83-4	2.00000	0.00003None
FR-9800	ChemStream	Friction Reducer	Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00003None
Ferplex 66	Evolution	Iron Control	Citric Acid	000077-92-9	30.00000	0.00002None
Clearal 268	ChemStream	Bicide	Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001None
Clearal 268	ChemStream	Bicide	Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001None
ECM PP	ECM	Pipe On Pipe	Amides, From Diethylene tetraamine, alkenoic Acid and tall oil fatty acids	Proprietary	20.00000	0.00001None
FR-9800	ChemStream	Friction Reducer	Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00001None
Clearal 268	ChemStream	Bicide	Ethanol	64-17-5	1.50000	0.00000None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Alcohols, C14-C15, ethoxylated	68951-67-7	7.00000	0.00000None
ECM PP	ECM	Pipe On Pipe	Butyl cellosolve	Proprietary	5.00000	0.00000None
Plexhib 166	Evolution	Acid Corrosion Inhibitor	Propargyl alcohol	107-19-7	5.00000	0.00000None

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 21, 2021

Matthew Hardt
11306 Clubhouse Rd
Presto, PA 15142

Mr. Hardt,

Please find enclosed a mylar copy of the Prine 5H 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

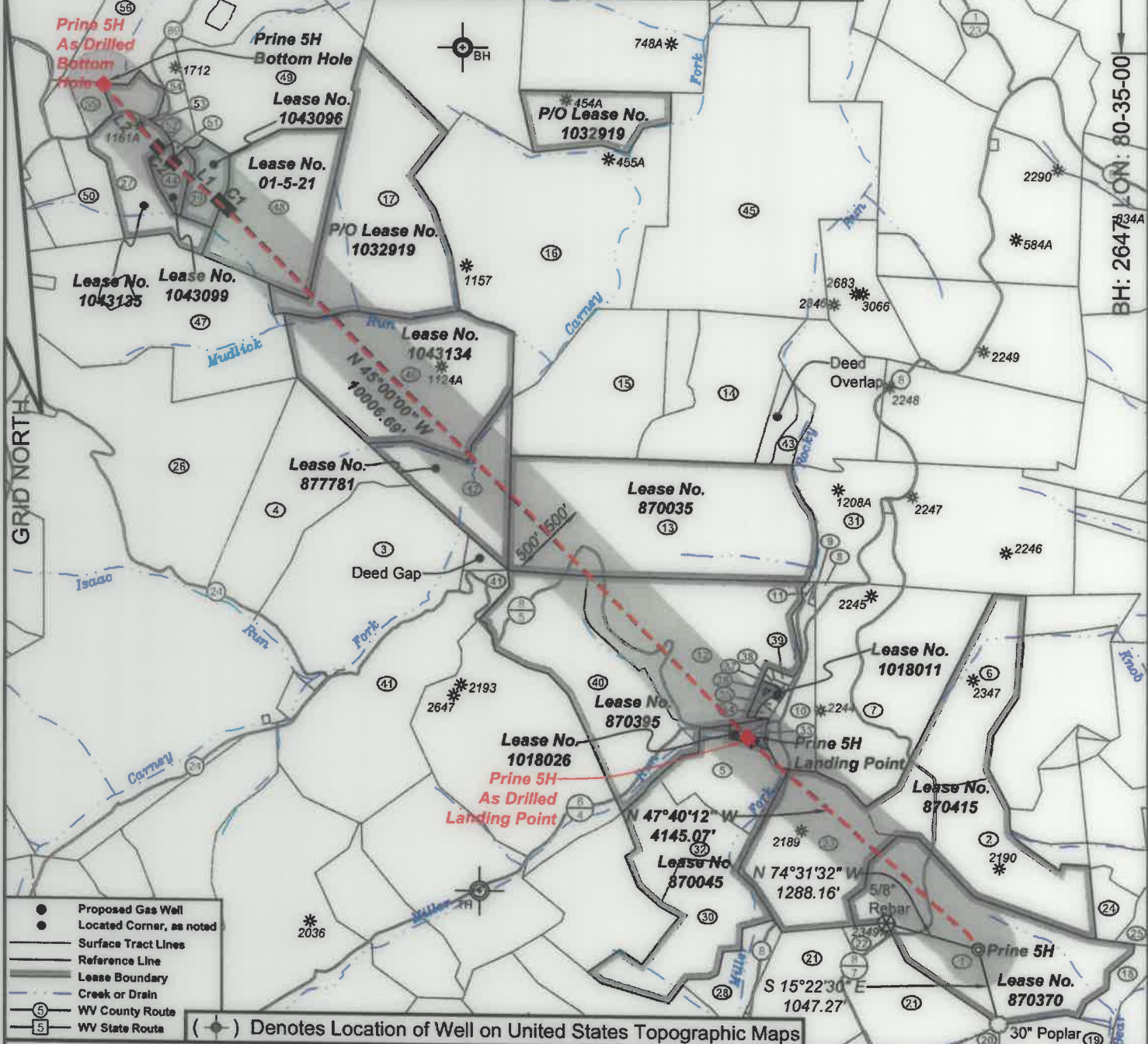
09/09/2022

TH: 9034' LAT: 39-42-30
 BH: 9270' LAT: 39-42-30

**Prine 5H
 LIT53
 EQT Production Company**

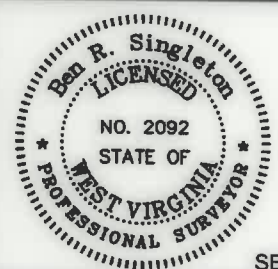
LINE	BEARING	DISTANCE
L1	N 50°00'00" W	799.70'
L2	N 40°56'38" W	1123.17'

CURVE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	1911.94'	166.86'	N 47°30'01" W	166.81'
C2	1912.08'	302.22'	N 45°28'19" W	301.91'



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 5H
 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 13 20 21
 OPERATOR'S WELL NO.: Prine 5H
 API WELL NO
 47 - 103 - 03356
 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 ACRES: 111
 ROYALTY OWNER: Jamie Joe Prine, et al LEASE NO: 870370 ACRES: 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'

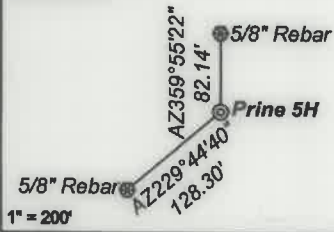
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330

09/09/2022

**Prine 5H
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	66.00
3	7	7	Wetzel	Center	Charles D. Wood	108.27
4	7	6.1	Wetzel	Center	Rickey A. & Carol A. Yeater	140.00
5	8	40.1	Wetzel	Center	Robert E. Dorsey, Sr.	38.00
6	8	29	Wetzel	Center	Howard M. & William D. Henderson	57.00
7	8	28	Wetzel	Center	Matthew J. Rice	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.	172.80
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	8.1	Wetzel	Center	Larry L. & Lois J. Deam	94.50
21	11	8	Wetzel	Center	Ray S. & Timmy R. Sapp	90.50
22	11	8.2	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. Dolon	192.21
27	4	35	Wetzel	Center	Sleve Long	34.25
28	11	5.1	Wetzel	Center	Robert E. Dorsey, Sr.	20.00
29	4	35.7	Wetzel	Center	Robert L. Long, et al.	13.00
30	8	30	Wetzel	Center	Robert E. Dorsey, Sr.	66.00
31	8	8	Wetzel	Center	Lillian M. Pitzer & Jason L. Wright	67.00
32	8	40	Wetzel	Center	Robert E. Dorsey, Sr.	34.00
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.	0.50
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	0.58
40	8	16	Wetzel	Center	Evan H. & Janet L. Backinger	70.30
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	15.60
44	4	35.8	Wetzel	Center	Robert L. Long	9.00
45	5	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. Muagrave, et al.	127.72
48	5	21	Wetzel	Center	Susan Miller, et al.	60.25
49	5	13	Wetzel	Center	Susan Miller, et al.	60.00
50	4	35.1	Wetzel	Center	Sleve Long	35.77
51	4	35.9	Wetzel	Center	Ethan Wayman	0.46
52	4	35.6	Wetzel	Center	Roger & Kille Long	1.14
53	4	35	Wetzel	Center	Christian Church	
54	4	35.2	Wetzel	Center	Rodger S. Long	13.26
55	4	35.5	Wetzel	Center	Charles Fred Muagrave, et al.	5.71
56	4	25	Wetzel	Center	Susan L. & John F. Thomas	30.00

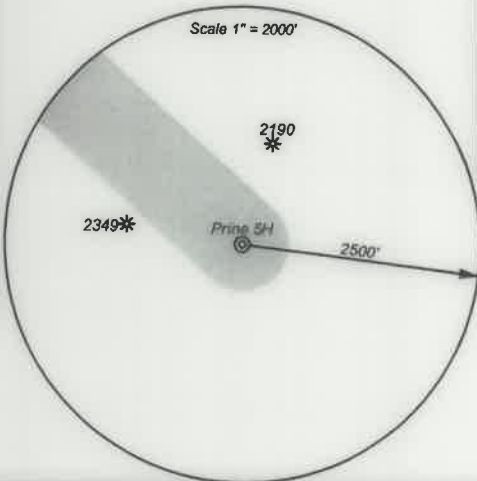
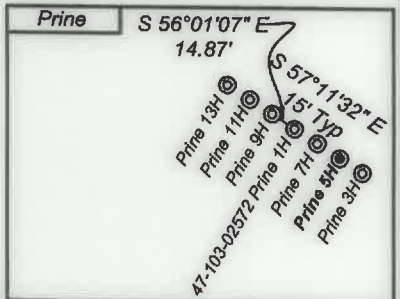
Well References



As Drilled Well Information:

Prine 5H coordinates are
 NAD 27 N: 427,853.43 E: 1,697,745.41
 NAD 83 UTM N: 4,391,199.13 E: 536,575.03
 Prine 5H Kick Out Point coordinates are
 NAD 27 N: 427,842.58 E: 1,697,769.04
 NAD 83 UTM N: 4,391,195.94 E: 536,582.28
 Prine 5H Landing Point coordinates are
 NAD 27 N: 430,681.43 E: 1,694,634.77
 NAD 83 UTM N: 4,392,044.86 E: 535,612.97
 Prine 5H Bottom Hole coordinates are
 NAD 27 N: 439,407.96 E: 1,685,919.36
 NAD 83 UTM N: 4,394,659.07 E: 532,913.39
 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
870045	Green Dot Farm, inc., et al.	125
1018026	Charles P. Wade II, et ux.	3
1018011	Diana Dawn Van Horn, et al.	2.87
870395	Brian R. Morgan, et al.	170
870035	Stone Hill Minerals Holdings, LLC, et al.	150
877781	David & Imogene Wood	44
1043134	Kathleen O'Grady	103.75
1032919	Benjamin Yarber, et ux.	136.595184 of 224
1-5-21	Susan Miller, et al.	69.25
1043096	Mary Gallo, et al.	13
1043099	Mary Gallo, et al.	9
1043135	Mary Gallo, et al.	34.250



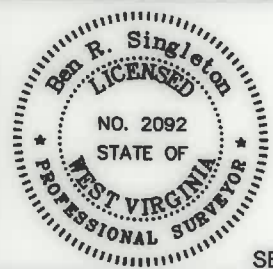
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- Ⓢ WV County Route
- Ⓢ WV State Route



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



SEAL

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 ADDRESS: 400 Woodcliff Drive ADDRESS: 115 Professional Place PO Box 280
 Canonsburg, PA 15317 Bridgeport, WV 26330