

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

API 47- 103 - 03527 County Wetzel District Center
Quad Littleton Pad Name Haggard Field/Pool Name N/A
Farm name Amie Lee Henderson Well Number Haggard 4H (L017941)
Operator (as registered with the OOG) EQT Production Company
Address 400 Woodcliff Drive 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 4,389,453.14 Easting 532,584.445
Landing Point of Curve Northing 4,388,643.576 Easting 531,968.721
Bottom Hole Northing 4,384,066.067 Easting 534,308.187

Elevation (ft) 1519' 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 13.56 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 10/31/2022 Date drilling commenced 03/27/2023 Date drilling ceased 10/26/2023
Date completion activities began 01/08/2024 Date completion activities ceased 04/10/2024
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 437 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2228 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 1311,1429 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by: [Signature]
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API 47- 103 - 03527 Farm name Amie Lee Henderson Well number Haggard 4H (L017941)

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"	1459'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2895'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	26,017'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 986' 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 L	1265	16.0	1.09	1379	0	8
Coal							
Intermediate 1	CLASS L	1024	15.6	1.14	1167	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4305	15.0	1.19	5123	986'	8+
Tubing							

Drillers TD (ft) 26,035' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) 3,034'

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 OTHER JOINT TO 8993' AND EVERY JOINT TO 2006'

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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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 _____

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Well # HAGGARD 4H (L017941) Final Formations API# 47-103-03527				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,311	1,311
Sewickley Coal	1,311	1,311	1,314	1,314
Sand/Shale	1,314	1,314	1,429	1,429
Pittsburgh Coal	1,429	1,429	1,438	1,438
Sand/Shale	1,438	1,438	2,771	2,771
Big Injun	2,771	2,771	2,896	2,896
Sand/Shale	2,896	2,896	3,045	3,045
Berea	3,045	3,045	3,286	3,285
Sand/Shale	3,286	3,285	3,404	3,400
Gantz	3,404	3,400	3,537	3,528
Sand/Shale	3,537	3,528	3,559	3,549
Fifty foot	3,559	3,549	3,597	3,586
Sand/Shale	3,597	3,586	3,643	3,629
Thirty foot	3,643	3,629	3,664	3,649
Sand/Shale	3,664	3,649	3,711	3,693
Bayard	3,711	3,693	3,803	3,778
Sand/Shale	3,803	3,778	4,155	4,086
Upper Speechley	4,155	4,086	4,216	4,136
Speechley	4,216	4,136	4,300	4,203
Balltown	4,300	4,203	4,630	4,447
Bradford	4,630	4,447	5,773	5,353
Benson	5,773	5,353	6,110	5,615
Alexander	6,110	5,615	6,569	5,971
Elk	6,569	5,971	8,161	7,185
Sonyea	8,161	7,185	8,362	7,336
Middlesex	8,362	7,336	8,421	7,379
Genesee	8,421	7,379	8,535	7,459
Geneseo	8,535	7,459	8,581	7,489
Tully	8,581	7,489	8,618	7,511
Hamilton	8,618	7,511	8,882	7,618
Marcellus	8,882	7,618	26,035	7,651

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Perforation Data

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Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	02/16/2024	25928	25765	36	Marcellus
3	02/16/2024	25746	25583	36	Marcellus
4	02/16/2024	25564	25402	36	Marcellus
5	02/16/2024	25383	25202	40	Marcellus
6	02/17/2024	25183	25002	40	Marcellus
7	02/17/2024	24983	24802	40	Marcellus
8	02/17/2024	24783	24602	40	Marcellus
9	02/17/2024	24583	24403	40	Marcellus
10	02/18/2024	24384	24205	40	Marcellus
11	02/18/2024	24186	24006	40	Marcellus
12	02/18/2024	23987	23808	40	Marcellus
13	02/19/2024	23789	23609	40	Marcellus
14	02/19/2024	23590	23411	40	Marcellus
15	02/19/2024	23392	23212	40	Marcellus
16	02/19/2024	23193	23014	40	Marcellus
17	02/20/2024	22995	22815	40	Marcellus
18	02/20/2024	22796	22617	40	Marcellus
19	02/20/2024	22598	22418	40	Marcellus
20	02/20/2024	22399	22220	40	Marcellus
21	02/21/2024	22201	22021	40	Marcellus
22	02/21/2024	22002	21823	40	Marcellus
23	02/21/2024	21804	21624	40	Marcellus
24	02/22/2024	21605	21426	40	Marcellus
25	02/22/2024	21407	21227	40	Marcellus
26	02/22/2024	21208	21029	40	Marcellus
27	02/23/2024	21010	20830	40	Marcellus
28	02/23/2024	20811	20632	40	Marcellus
29	02/23/2024	20613	20433	40	Marcellus
30	02/24/2024	20414	20235	40	Marcellus
31	02/24/2024	20216	20036	40	Marcellus
32	02/25/2024	20017	19838	40	Marcellus
33	02/25/2024	19819	19639	40	Marcellus
34	02/25/2024	19620	19441	40	Marcellus
35	02/26/2024	19422	19242	40	Marcellus
36	02/26/2024	19223	19044	40	Marcellus
37	02/26/2024	19025	18845	40	Marcellus
38	02/27/2024	18826	18647	40	Marcellus
39	02/27/2024	18628	18448	40	Marcellus
40	02/28/2024	18429	18250	40	Marcellus
41	02/28/2024	18231	18051	40	Marcellus
42	02/28/2024	18032	17853	40	Marcellus
43	02/29/2024	17834	17654	40	Marcellus
44	02/29/2024	17635	17456	40	Marcellus

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45	02/29/2024	17437	17257	40	Marcellus
46	03/01/2024	17238	17059	40	Marcellus
47	03/01/2024	17040	16860	40	Marcellus
48	03/02/2024	16841	16662	40	Marcellus
49	03/03/2024	16643	16463	40	Marcellus
50	03/04/2024	16444	16265	40	Marcellus
51	03/04/2024	16246	16066	40	Marcellus
52	03/05/2024	16047	15868	40	Marcellus
53	03/06/2024	15849	15669	40	Marcellus
54	03/06/2024	15650	15471	40	Marcellus
55	03/07/2024	15452	15272	40	Marcellus
56	03/08/2024	15253	15074	40	Marcellus
57	03/08/2024	15055	14875	40	Marcellus
58	03/09/2024	14856	14677	40	Marcellus
59	03/09/2024	14658	14478	40	Marcellus
60	03/10/2024	14459	14280	40	Marcellus
61	03/11/2024	14261	14081	40	Marcellus
62	03/11/2024	14062	13883	40	Marcellus
63	03/12/2024	13864	13684	40	Marcellus
64	03/12/2024	13665	13486	40	Marcellus
65	03/12/2024	13467	13287	40	Marcellus
66	03/12/2024	13268	13089	40	Marcellus
67	03/13/2024	13070	12890	40	Marcellus
68	03/13/2024	12871	12692	40	Marcellus
69	03/13/2024	12673	12493	40	Marcellus
70	03/14/2024	12474	12295	40	Marcellus
71	03/14/2024	12276	12096	40	Marcellus
72	03/14/2024	12077	11898	40	Marcellus
73	03/15/2024	11879	11699	40	Marcellus
74	03/15/2024	11680	11501	40	Marcellus
75	03/16/2024	11482	11302	40	Marcellus
76	03/16/2024	11283	11104	40	Marcellus
77	03/16/2024	11085	10905	40	Marcellus
78	03/17/2024	10886	10707	40	Marcellus
79	03/17/2024	10688	10508	40	Marcellus
80	03/17/2024	10489	10310	40	Marcellus
81	03/17/2024	10291	10111	40	Marcellus
82	03/18/2024	10092	9913	40	Marcellus
83	03/18/2024	9894	9714	40	Marcellus
84	03/18/2024	9695	9516	40	Marcellus
85	03/19/2024	9497	9317	40	Marcellus
86	03/19/2024	9298	9119	40	Marcellus
87	03/19/2024	9100	8920	40	Marcellus

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Stimulation Data

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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	02/16/2024	94	9037	6705	4297	176899	3837	
2	02/16/2024	100	8980	6990	4750	396071	9607	
3	02/16/2024	99	8732	6265	4882	396007	9499	
4	02/17/2024	94	8854	6359	4957	396150	9531	
5	02/17/2024	99	9052	5829	4768	440177	10360	
6	02/17/2024	100	8824	6351	5127	441594	10349	
7	02/17/2024	99	8848	6370	4692	440032	10339	
8	02/18/2024	100	8970	6361	4591	440032	10303	
9	02/18/2024	100	8691	6098	4840	440183	10258	
10	02/18/2024	100	8700	6071	4853	440088	10317	
11	02/19/2024	98	8957	6206	4763	440227	10327	
12	02/19/2024	100	9013	6380	4920	440209	10222	
13	02/19/2024	100	8714	6496	4864	440024	10200	
14	02/19/2024	100	8748	6379	4518	440040	10201	
15	02/20/2024	100	8817	6284	4792	440386	10250	
16	02/20/2024	100	8989	6518	4601	440275	10155	
17	02/20/2024	100	8768	5712	5075	440022	10174	
18	02/20/2024	100	8673	6068	4396	440348	10146	
19	02/21/2024	100	8582	6088	4684	440323	10148	
20	02/21/2024	100	8616	6529	4952	440357	10149	
21	02/21/2024	99	8734	6494	4637	440403	10166	
22	02/22/2024	100	8617	6160	4497	440350	10158	
23	02/22/2024	100	8707	5969	5083	440016	10204	
24	02/22/2024	100	8725	6080	4284	440150	10127	
25	02/23/2024	98	8640	5885	4832	440024	10132	
26	02/23/2024	100	8723	6145	4565	440084	10067	
27	02/23/2024	100	8558	6034	4742	440147	10064	
28	02/24/2024	100	8792	6236	4433	440008	10058	
29	02/24/2024	100	8709	6027	4688	440048	10028	
30	02/24/2024	100	8691	6183	4746	440743	10039	
31	02/25/2024	100	8626	6201	4595	440076	10023	
32	02/25/2024	100	8670	6277	4411	439968	9997	
33	02/25/2024	100	8614	7192	4680	440088	9978	
34	02/26/2024	100	8632	6237	4596	440041	10027	
35	02/26/2024	100	8542	6355	4717	440067	9982	
36	02/27/2024	100	8677	6633	4589	440034	9888	
37	02/27/2024	100	8622	6624	4514	440101	9986	
38	02/28/2024	100	8577	6694	4860	440051	9977	
39	02/28/2024	100	8913	6535	4686	440127	9959	
40	02/28/2024	99	8620	6768	4791	440103	9963	
41	02/28/2024	98	8640	6867	4578	440252	9975	
42	02/29/2024	100	9012	6684	4497	440080	9953	
43	02/29/2024	99	8559	6683	2724	440014	9953	

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44	03/01/2024	100	9003	6978	2838	439987	9947
45	03/01/2024	100	8464	6812	2930	440004	9920
46	03/01/2024	98	8790	6967	4483	440994	9960
47	03/02/2024	100	8654	6587	2825	440057	9917
48	03/03/2024	86	9193	6855	2421	440092	9872
49	03/04/2024	98	8900	6635	4597	439981	9924
50	03/04/2024	99	8775	7037	4547	439972	9881
51	03/05/2024	100	8793	6975	2854	441166	9890
52	03/06/2024	100	8678	6922	4237	439967	9886
53	03/06/2024	97	8598	7421	4413	440009	9851
54	03/07/2024	99	8613	6577	4639	440086	9846
55	03/08/2024	99	8769	6612	4518	440364	9878
56	03/09/2024	100	8411	6789	4490	440189	9872
57	03/09/2024	85	9031	6731	4543	440068	9843
58	03/10/2024	97	8376	6490	4679	429221	9805
59	03/10/2024	98	8364	6883	4551	440089	9853
60	03/11/2024	94	8692	6980	4724	440198	9989
61	03/11/2024	81	9103	6826	4534	439971	9911
62	03/12/2024	97	8655	6483	4640	440310	9807
63	03/12/2024	100	8525	6413	4358	440020	9778
64	03/12/2024	96	8323	6581	4702	440040	9803
65	03/13/2024	98	8468	6552	4887	440212	9785
66	03/13/2024	96	8520	6564	4420	440269	9789
67	03/13/2024	97	8354	6792	4439	440057	9798
68	03/14/2024	98	8571	6735	4393	440297	9769
69	03/14/2024	87	9002	6948	4576	400030	9955
70	03/14/2024	88	8931	9161	4201	440100	9753
71	03/14/2024	100	8216	6444	4519	440208	9726
72	03/15/2024	100	8304	6576	4676	440207	9751
73	03/15/2024	99	8254	8222	4361	440180	9709
74	03/16/2024	100	8281	6817	4227	440258	9720
75	03/16/2024	101	8443	6653	4280	440105	9781
76	03/16/2024	100	8139	6597	4386	440163	9691
77	03/17/2024	100	8242	6626	3124	440244	9695
78	03/17/2024	101	8088	6711	4295	440107	9693
79	03/17/2024	101	7923	6347	4416	440079	9690
80	03/18/2024	100	8196	6717	4381	440171	9682
81	03/18/2024	101	8107	7744	-5	440246	9781
82	03/18/2024	101	8049	6543	4210	440089	9660
83	03/19/2024	100	8009	6709	4135	440940	9657
84	03/19/2024	99	8021	6724	4339	440148	9654
85	03/19/2024	100	7975	6551	4523	440080	9652
86	03/19/2024	100	7805	6527	4751	440157	9624
87	03/19/2024	100	7616	6206	4800	439762	9624

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	01/08/2024
Job End Date:	03/20/2024
State:	West Virginia
County:	Wetzel
API Number:	47-103-03527-00-00
Operator Name:	EQT Production
Well Name and Number:	Haggard 4H
Latitude:	39.654257
Longitude:	-80.620178
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7680
Total Base Water Volume (gal)*:	36042216
Total Base Non Water Volume:	0



Water Source	Percent
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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	100.00000	88.67780	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	11.15925	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Copolymer of 2-propenamide	Proprietary	30.00000	0.00952	None
Clearal 268	ChemStream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.00899	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000	0.00766	None
StimSTREAM	ChemStream	Friction					

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FR 9800		Reducer					
			Petroleum Distillate	64742-47-8	20.00000	0.00423	None
Enviro-Syn HCR-7000-WL	Fluid Energy Group Ltd.	Synthetic Acid					
			Proprietary	Proprietary	20.00000	0.00135	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00056	None
Enviro-Syn HCR-7000-WL	Fluid Energy Group Ltd.	Synthetic Acid					
			Proprietary	Proprietary	10.00000	0.00034	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00010	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00004	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00004	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Ammonium chloride (NH ₄ Cl)	12125-02-9	1.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	0.00000	None

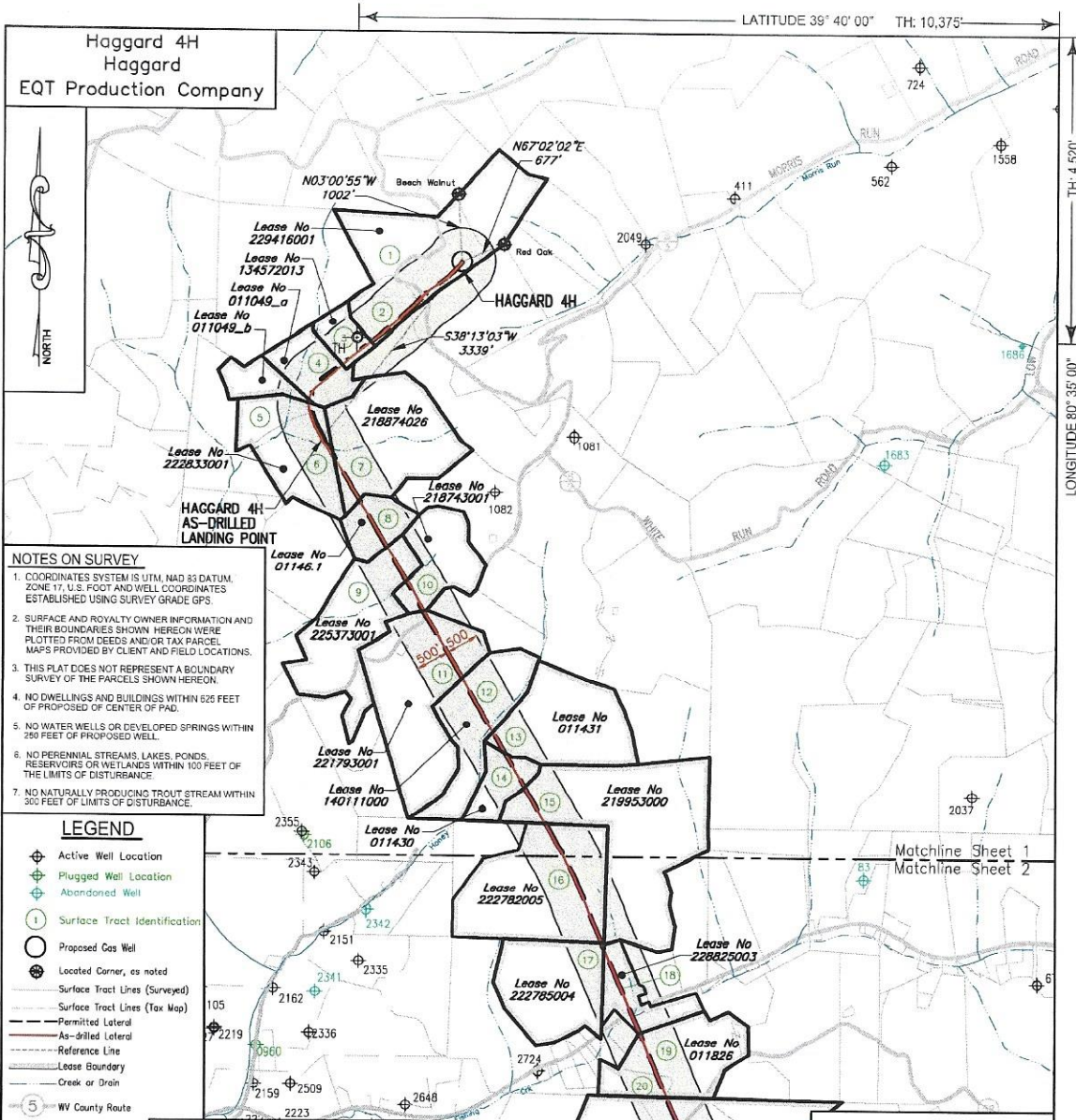
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* Total Water Volume sources may include various types of water including fresh water, produced water, and 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)

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 Office of Oil and Gas
 JUL 08 2024
 WV Department of
 Environmental Protection

08/16/2024

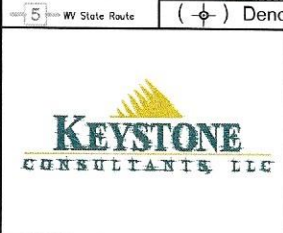


NOTES ON SURVEY

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- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
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- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
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- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

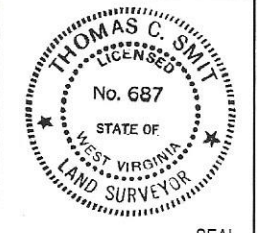
LEGEND

- Active Well Location
- Plugged Well Location
- Abandoned Well
- Surface Tract Identification
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines (Surveyed)
- Surface Tract Lines (Tax Map)
- Permitted Lateral
- As-Drilled Lateral
- 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.

Thomas C. Smith
L. L. S. 687



FILE NO: W2175 (BK 59-37)
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

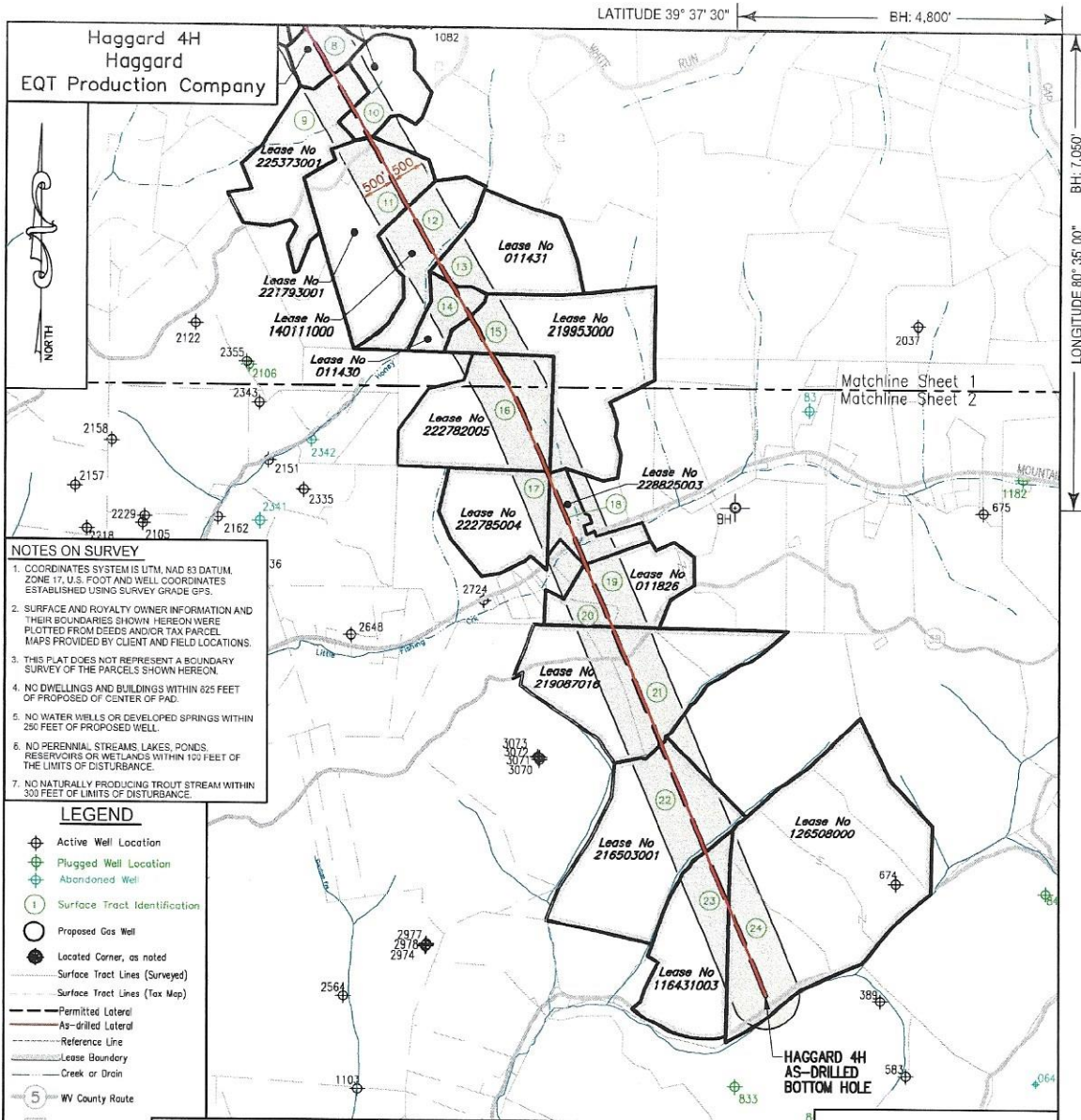


DATE: OCTOBER 31, 20 23
OPERATORS WELL NO: Haggard 4H
API WELL NO: 47 - 103 - 03527
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1519' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Amie Lee Henderson ACREAGE: 45.5 ±
ROYALTY OWNER: Blackrock Enterprises LLC, et al. LEASE NO: 229416001 ACREAGE: 84.94 ±
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: 7.607'
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

RECEIVED
Office of Oil and Gas
JUL 08 2024
WV Department of Environmental Protection

08/16/2024

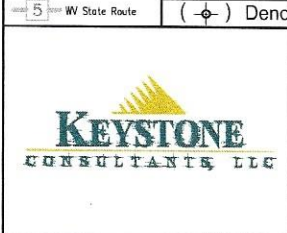


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- NO DWELLINGS AND BUILDINGS WITHIN 825 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

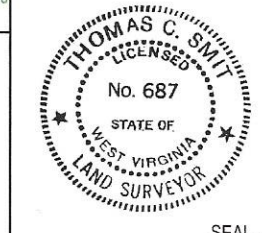
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Thomas C. Smit
L. L. S. 687



FILE NO: W2175 (BK 59-37)
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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

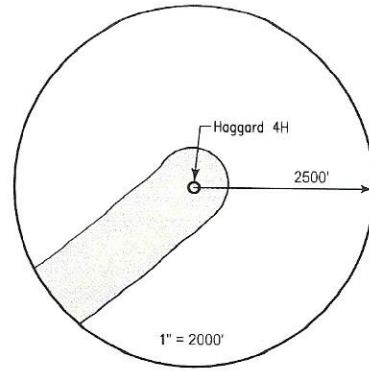
DATE: OCTOBER 31, 20 23
OPERATORS WELL NO: Haggard 4H
API WELL NO: 47 - 103 - 03527
STATE COUNTY PERMIT

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ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
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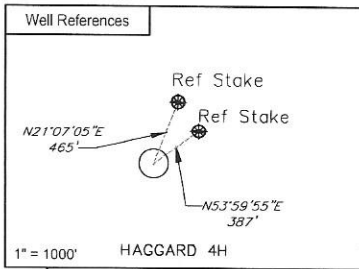
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Office of Oil and Gas
JUL 08 2024
WV Department of Environmental Protection

Haggard 4H
Haggard
EQT Production Company

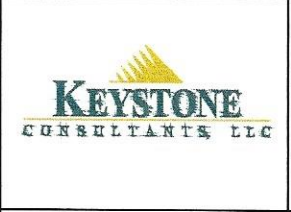
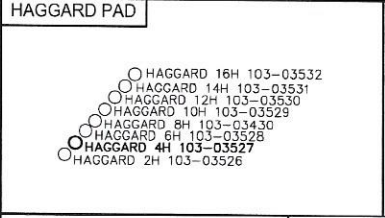
Tract ID	Tax Map No	Parcel No.	County	District	Surface Tract Owner	Acres
1	10	36.0	Wetzel	Center	Amie Lee Henderson	45.50
2	10	37.0	Wetzel	Center	Amie Lee Henderson	14.50
3	10	51.0	Wetzel	Center	Sharon J. McMillen	10.00
4	10	49.0	Wetzel	Center	Sharon J. McMillen	33.00
5	10	50.0	Wetzel	Center	Coastal Forest Resources Co.	16.50
6	14	4.0	Wetzel	Center	Coastal Forest Resources Co.	31.25
7	14	5.0	Wetzel	Center	Coastal Forest Resources Co.	66.15
8	14	6.1	Wetzel	Center	John W. Furlong	15.90
9	14	28.0	Wetzel	Center	James H. Holt	78.00
10	14	6.2	Wetzel	Center	John W. Furlong	33.50
11	14	28.0	Wetzel	Center	Kenneth R. & Jennifer L. Mason	80.00
12	14	29.0	Wetzel	Center	Kenneth R. & Jennifer L. Mason	43.36
13	14	31.0	Wetzel	Center	Kenneth R. & Jennifer L. Mason	53.30
14	14	30.0	Wetzel	Center	Kenneth R. & Jennifer L. Mason	18.25
15	14	42.0	Wetzel	Center	The Morgan County Hunting Club, LLC	120.75
16	14	41.0	Wetzel	Center	Dean S HEST & E TEST & James E. Ashcraft	92.43
17	18	8.0	Wetzel	Center	Dean S HEST & E TEST & James E. Ashcraft	50.00
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19	18	26.0	Wetzel	Center	Richard Rider Spock	32.63
20	18	24.0	Wetzel	Center	Palma B. Morris	9.16
21	18	28.0	Wetzel	Center	Todd D. & Sonya R. Siegfried	40.00
22	2	5.0	Wetzel	Grant	John Richard Peters	104.00
23	2	12.2	Wetzel	Grant	Teora L. Dulaney & Sandra Dulaney	66.64
24	3	13.0	Wetzel	Grant	Edward Lee Dulaney II	164.76



Lease	Owner	Acres
229416001	Blackrock Enterprises LLC, et al	84.94 ac of 198.1275 ac
134572013	Ohio Valley University, Inc., et al	105.7525 ac
011049_a	KKS Minerals, LLC, et al	22.753 ac
011049_b	KKS Minerals, LLC, et al	10.247 ac of 1,147.39 ac
222833001	Jane Lee Pitzgral Wilson, et al	91.75 ac
218874026	Coastal Forest Resources Company, et al	66.15 ac of 431.053 ac
01146.1	Clarence M. Coubourne, et al	15.9 ac
225373001	Barbara Postelwatt Norris, et al	78.1 ac
218743001	The Mineral Company, et al	33.5 ac
221793001	Thomas E. Garner, et al	79.42 ac
140111000	TH Exploration II LLC	43.3 ac of 1,952.7875 ac
011431	Shben Estates, Inc., et al	52.125 ac
011430	SW2 Minerals, LLC, et al	18.25 ac
219953000	Stone Hill Minerals Holdings LLC, et al	120.75 ac of 811.95 ac
222762005	Lisa A. Glover, et al	67 ac
222765004	Lisa A. Glover, et al	50.5 ac
228825003	Christy L. Conaway, et al	19.9925 ac
011626	Coleen Olson, et al	53 ac of 62.25 ac
219097016	Stephen L. Meskal, et al	104.54 ac
216503001	Shben Estates, Inc., et al	104 ac
116431003	Brett L. Austin, et al	75 ac
126508000	J&N Management Enterprises, LLC, et al	332 ac



Notes:
HAGGARD 4H coordinates are
NAD 27 N: 422,343.167 E: 1,684,555.359
NAD 27 Lat: 39.654175 Long: -80.620368
NAD 83 UTM N: 4,389,453.14 E: 532,584.445
HAGGARD 4H Landing Point coordinates are
NAD 27 N: 419,720.440 E: 1,682,450.680
NAD 27 Lat: 39.646904 Long: -80.627583
NAD 83 UTM N: 4,388,643.676 E: 531,968.721
HAGGARD 4H Bottom Hole coordinates are
NAD 27 N: 404,571.310 E: 1,689,917.160
NAD 27 Lat: 39.605669 Long: -80.600563
NAD 83 UTM N: 4,384,066.067 E: 534,308.187
West Virginia Coordinates system of 1927 (North Zone)
based upon Differential GPS Measurements
Flat 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.



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.

Thomas C. Smith
L. L. S. 687



FILE NO: W2192 (BK 65-61)
DRAWING NO:
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: OCTOBER 31, 20 23
OPERATORS WELL NO: Haggard 4H
API WELL NO: 47 - 103 - 03527
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION ELEVATION: 1519' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON
DISTRICT: Center COUNTY: Wetzel

SURFACE OWNER: Amie Lee Henderson ACREAGE: 45.5 ±
ROYALTY OWNER: Blackrock Enterprises LLC, et al. LEASE NO: 229416001 ACREAGE: 84.94 ±

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: 7,607'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

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Office of Oil and Gas
JUL 08 2024
WV Department of
Environmental Protection

08/16/2024

Well Operator's Report of Well Work



Well Number: Haggard 4H (L017941)

API: 47 - 103 - 03527

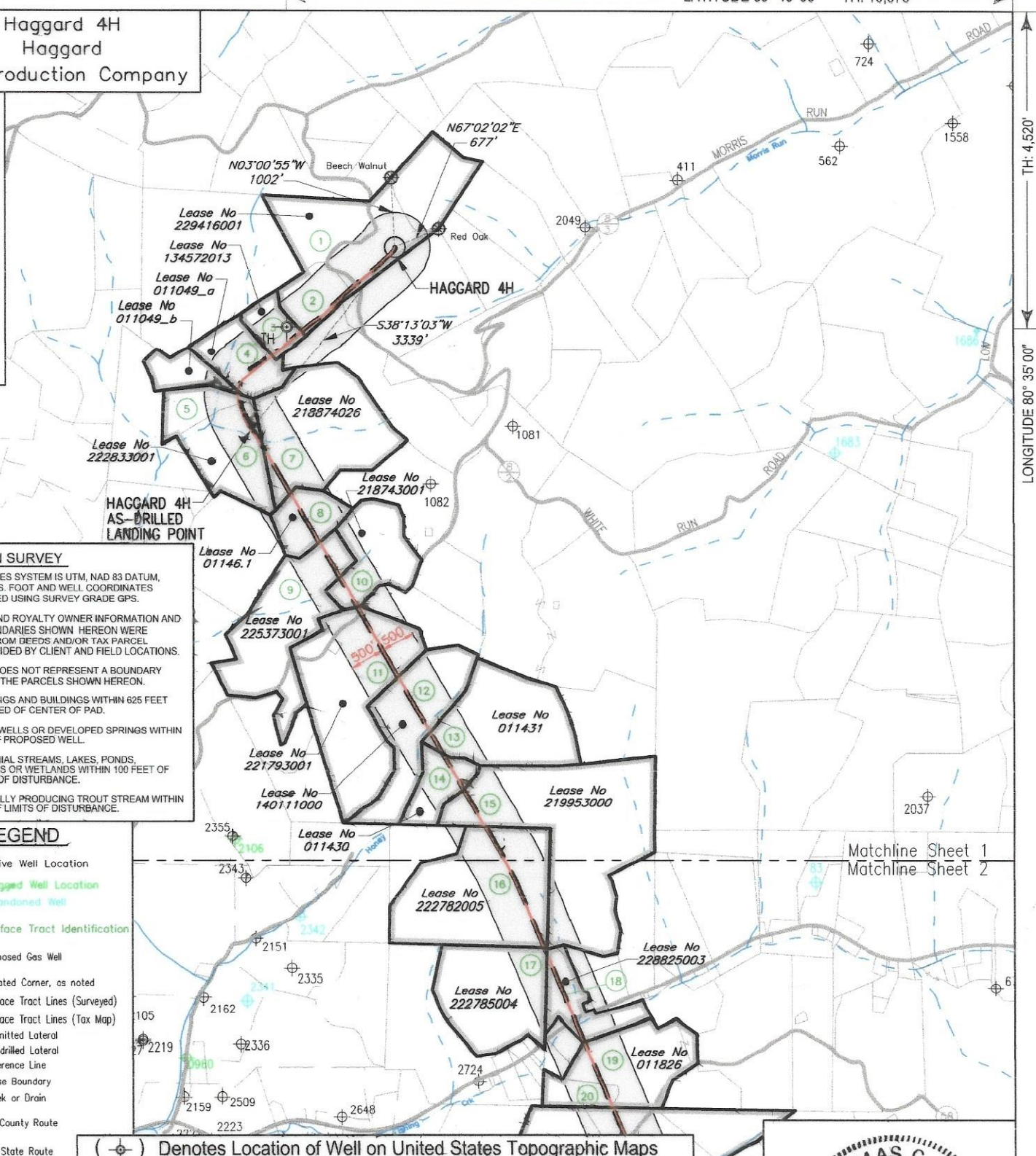
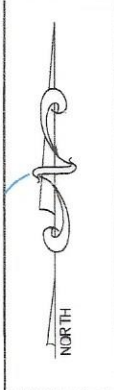
Submission: Initial Amended

Notes: Original

RECEIVED
Office of Oil and Gas
JUL 08 2024
WV Department of
Environmental Protection

08/16/2024

Haggard 4H
Haggard
EQT Production Company



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- LEGEND**
- Active Well Location
 - Plugged Well Location
 - Abandoned Well
 - Surface Tract Identification
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 - Located Corner, as noted
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 - Surface Tract Lines (Tax Map)
 - Permitted Lateral
 - As-drilled Lateral
 - Reference Line
 - Lease Boundary
 - Creek or Drain
 - WV County Route
 - WV State Route

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

Matchline Sheet 1
Matchline Sheet 2



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Thomas C. Smit
L. L. S. 687



SEAL

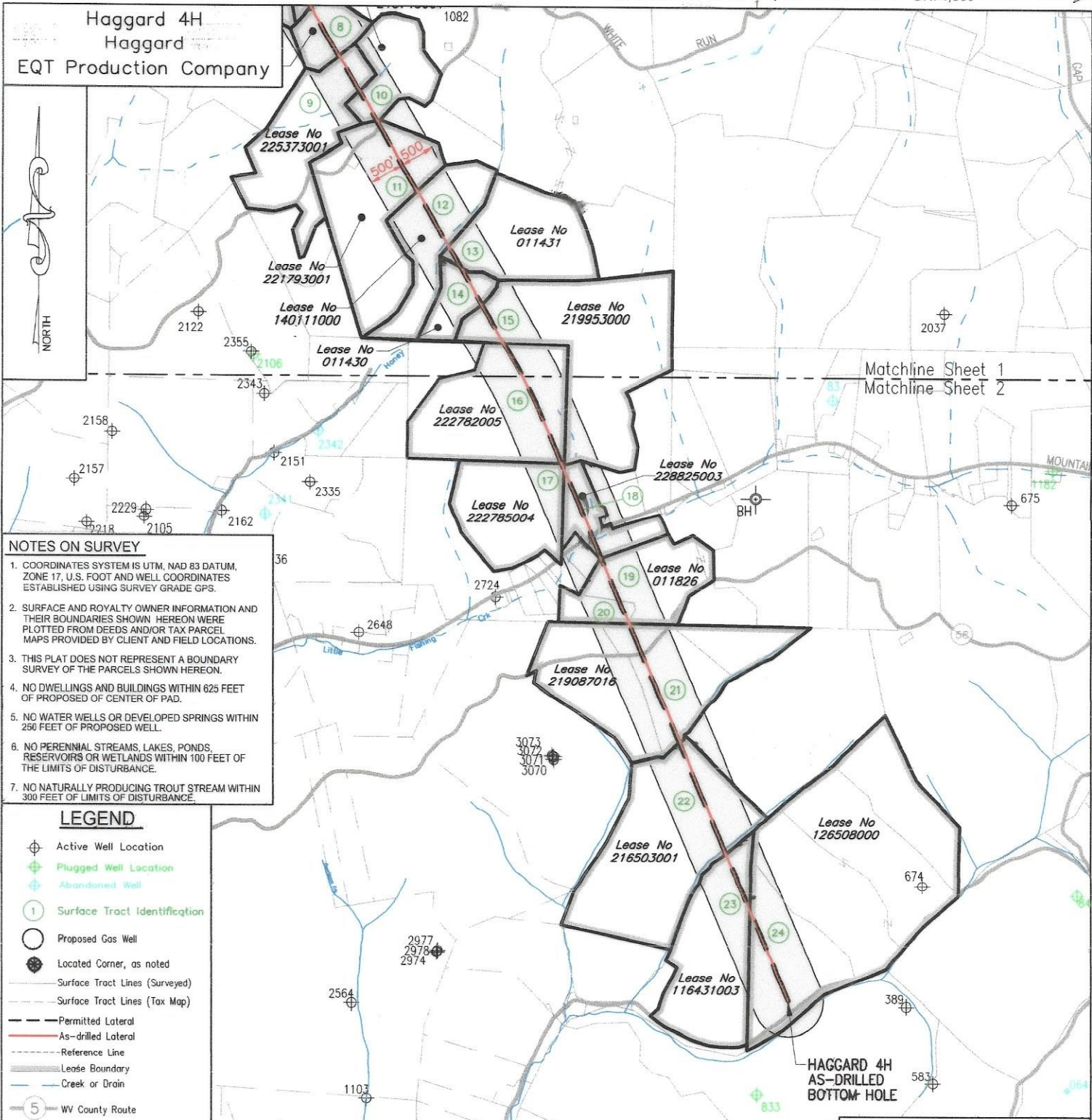
FILE NO: W2175 (BK 59-37)
DRAWING NO:
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: OCTOBER 31, 20 23
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API WELL NO
47 - 103 - 03527
STATE COUNTY PERMIT

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WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

AS-DRILLED



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



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Thomas C. Smit
L. L. S. 687



SEAL

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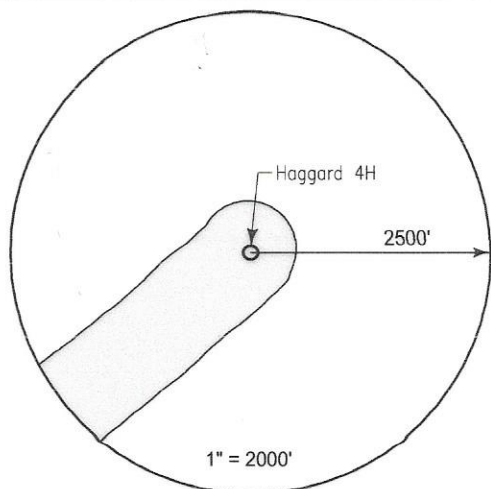
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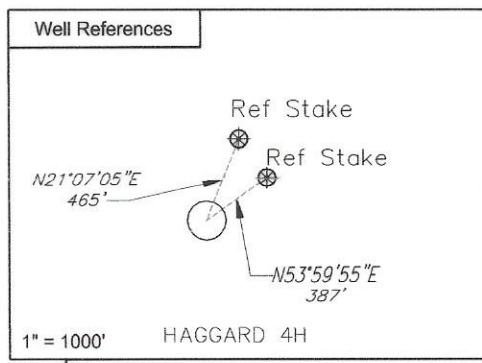
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Haggard 4H
Haggard
EQT Production Company

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218743001	The Mineral Company, et al.	33.5 ac
221793001	Thomas E. Garner, et al.	79.42 ac
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011431	Shiben Estates, Inc., et al.	52.125 ac
011430	SWZ Minerals, LLC, et al.	16.25 ac
219963000	Stone Hill Minerals Holdings LLC, et al.	120.75 ac of 811.96 ac
222782005	Lisa A. Glover, et al.	67 ac
222785004	Lisa A. Glover, et al.	50.5 ac
228825003	Christy L. Conaway, et al.	19.9926 ac
011826	Coleen Olson, et al.	53 ac of 62.25 ac
219087016	Stephen L. Moskal, et al.	104.54 ac
216503001	Shiben Estates, Inc., et al.	104 ac
110431003	Brett L. Austin, et al.	75 ac
126508000	J&N Management Enterprises, LLC, et al.	332 ac



Notes:
HAGGARD 4H coordinates are
NAD 27 N: 422,343.167 E: 1,684,555.359
NAD 27 Lat: 39.654175 Long: -80.620368
NAD 83 UTM N: 4,389,453.14 E: 532,584.445
HAGGARD 4H Landing Point coordinates are
NAD 27 N: 419,720.440 E: 1,682,490.680
NAD 27 Lat: 39.646904 Long: -80.627583
NAD 83 UTM N: 4,388,643.576 E: 531,968.721
HAGGARD 4H Bottom Hole coordinates are
NAD 27 N: 404,571.310 E: 1,689,917.100
NAD 27 Lat: 39.605589 Long: -80.600553
NAD 83 UTM N: 4,384,066.067 E: 534,308.187
West Virginia Coordinates 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.

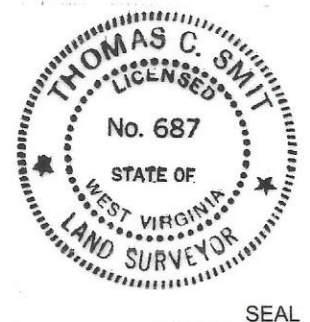
HAGGARD PAD

- HAGGARD 16H 103-03532
- HAGGARD 14H 103-03531
- HAGGARD 12H 103-03530
- HAGGARD 10H 103-03529
- HAGGARD 8H 103-03430
- HAGGARD 6H 103-03528
- HAGGARD 4H 103-03527
- HAGGARD 2H 103-03526



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.

Thomas C. Smit
L. L. S. 687



FILE NO: W2192 (BK 65-61)
DRAWING NO:
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: OCTOBER 31, 20 23
OPERATORS WELL NO: Haggard 4H
API WELL NO: 47 - 103 - 03527
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 1519' WATERSHED: LOWER WEST VIRGINIA FORK FISH CREEK QUADRANGLE: LITTLETON
DISTRICT: Center COUNTY: Wetzel
SURFACE OWNER: Amie Lee Henderson ACREAGE: 46.9 ±
ROYALTY OWNER: Blackrock Enterprises LLC, et al. LEASE NO: 229416001 ACREAGE: 84.94 ±
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: 7,607'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C. Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

08/16/2024

AS-DRILLED