

Well Operator's Report of Well Work



Well Number: Haggard 12H (L003873)

API: 47 - 103 - 03530

Submission: Initial Amended

Notes: Original

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

API 47-103-03530 County Wetzel District Center
Quad Littleton Pad Name Haggard Field/Pool Name N/A
Farm name Amie Lee Henderson Well Number Haggard 12H (L003873)
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 4,389,467.252 Easting 532,596.067
Landing Point of Curve Northing 4,389,497.540 Easting 532,889.101
Bottom Hole Northing 4,386,334.062 Easting 534,671.180

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 13.12 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 03/29/2023 Date drilling ceased 11/21/2023
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 2230 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 1307,1429 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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APPROVED

Reviewed by: [Signature]
7-12-24
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API 47- 103 03530 Farm name Amie Lee Henderson Well number Haggard 12H (L003873)

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"	1462'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2925'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	6"	20,197'	NEW	P-110 24#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has a calculated TOC of 1261' 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	1255	16.0	1.09	1368	0	8
Coal							
Intermediate 1	CLASS L	1035	15.6	1.14	1180	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3284	15.0	1.19	3908	1261'	8+
Tubing							

Drillers TD (ft) 20,214' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure _____

Kick off depth (ft) 3,633'

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 8135' AND EVERY JOINT TO 2208' _____

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 _____

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PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
See	Attached	*						

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3598 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 12321 mcfpd Oil 26 bpd NGL _____ bpd Water 208 bpd GAS MEASURED BY Estimated Orifice Pilot

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

Please insert additional pages as applicable.

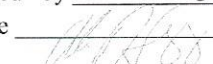
Drilling Contractor Patterson UTI (Rig 292)
Address 207 Carlton Dr City Eighty Four State PA Zip 15330

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


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

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

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone 724-579-5475
Signature  Title Director of Completions Date 2024-06-27 **RECEIVED Office of Oil and Gas JUL 08 2024**

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry WV Department of Environmental Protection

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API 47- 103 - 03530 Farm name Amie Lee Henderson Well number Haggard 12H (L003873)

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 12H (L003873) Final Formations API# 47-103-03530				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	1,307	1,307
Sewickley Coal	1,307	1,307	1,310	1,310
Sand/Shale	1,310	1,310	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	3,286
Sand/Shale	3,286	3,286	3,404	3,404
Gantz	3,404	3,404	3,537	3,537
Sand/Shale	3,537	3,537	3,559	3,559
Fifty foot	3,559	3,559	3,597	3,597
Sand/Shale	3,597	3,597	3,643	3,643
Thirty foot	3,643	3,643	3,664	3,664
Sand/Shale	3,664	3,664	3,711	3,711
Bayard	3,711	3,711	3,803	3,803
Sand/Shale	3,803	3,803	4,155	4,152
Upper Speechley	4,155	4,152	4,216	4,212
Speechley	4,216	4,212	4,300	4,294
Balltown	4,300	4,294	4,630	4,612
Bradford	4,630	4,612	5,773	5,712
Benson	5,773	5,712	6,110	6,039
Alexander	6,110	6,039	6,569	6,485
Elk	6,569	6,485	7,359	7,246
Sonyea	7,359	7,246	7,518	7,382
Middlesex	7,518	7,382	7,568	7,420
Genesee	7,568	7,420	7,667	7,487
Geneseo	7,667	7,487	7,708	7,511
Tully	7,708	7,511	7,745	7,532
Hamilton	7,745	7,532	8,000	7,629
Marcellus	8,000	7,629	20,214	7,665

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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	01/10/2024	20109	19926	40	Marcellus
3	01/11/2024	19907	19724	40	Marcellus
4	01/12/2024	19705	19522	40	Marcellus
5	01/12/2024	19503	19320	40	Marcellus
6	01/12/2024	19301	19118	40	Marcellus
7	01/15/2024	19099	18916	40	Marcellus
8	01/15/2024	18897	18714	40	Marcellus
9	01/22/2024	18695	18512	40	Marcellus
10	01/22/2024	18493	18310	40	Marcellus
11	01/24/2024	18291	18108	40	Marcellus
12	01/25/2024	18089	17906	40	Marcellus
13	01/25/2024	17887	17704	40	Marcellus
14	01/25/2024	17685	17502	40	Marcellus
15	01/26/2024	17483	17300	40	Marcellus
16	01/27/2024	17281	17098	40	Marcellus
17	01/28/2024	17079	16896	40	Marcellus
18	01/29/2024	16877	16694	40	Marcellus
19	01/30/2024	16675	16492	40	Marcellus
20	01/30/2024	16473	16290	40	Marcellus
21	01/31/2024	16271	16088	40	Marcellus
22	02/01/2024	16069	15886	40	Marcellus
23	02/02/2024	15867	15684	40	Marcellus
24	02/02/2024	15665	15482	40	Marcellus
25	02/03/2024	15463	15280	40	Marcellus
26	02/04/2024	15261	15078	40	Marcellus
27	02/04/2024	15059	14876	40	Marcellus
28	02/05/2024	14857	14674	40	Marcellus
29	02/06/2024	14655	14472	40	Marcellus
30	02/06/2024	14453	14270	40	Marcellus
31	02/07/2024	14251	14068	40	Marcellus
32	02/07/2024	14049	13866	40	Marcellus
33	02/08/2024	13847	13664	40	Marcellus
34	02/09/2024	13645	13462	40	Marcellus
35	02/09/2024	13443	13260	40	Marcellus
36	02/10/2024	13241	13058	40	Marcellus
37	02/11/2024	13039	12856	40	Marcellus
38	02/11/2024	12837	12654	40	Marcellus
39	02/14/2024	12635	12452	40	Marcellus
40	02/14/2024	12433	12250	40	Marcellus
41	02/14/2024	12231	12048	40	Marcellus
42	02/15/2024	12029	11846	40	Marcellus
43	02/15/2024	11827	11644	40	Marcellus
44	02/15/2024	11625	11442	40	Marcellus

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08/16/2024

45	02/16/2024	11423	11240	40	Marcellus
46	02/16/2024	11221	11038	40	Marcellus
47	02/16/2024	11019	10836	40	Marcellus
48	02/17/2024	10817	10634	40	Marcellus
49	02/17/2024	10615	10432	40	Marcellus
50	02/17/2024	10413	10230	40	Marcellus
51	02/17/2024	10211	10028	40	Marcellus
52	02/18/2024	10009	9826	40	Marcellus
53	02/18/2024	9807	9624	40	Marcellus
54	02/18/2024	9605	9422	40	Marcellus
55	02/19/2024	9403	9220	40	Marcellus
56	02/19/2024	9201	9018	40	Marcellus
57	02/19/2024	8999	8816	40	Marcellus
58	02/19/2024	8797	8614	40	Marcellus
59	02/20/2024	8595	8412	40	Marcellus
60	02/20/2024	8393	8210	40	Marcellus
61	02/20/2024	8191	8029	36	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	01/09/2024	96	8673	6982	4764	176038	4646	
2	01/11/2024	98	8881	6857	5034	440243	11114	
3	01/12/2024	98	8794	6551	4414	440062	10284	
4	01/12/2024	98	8992	6496	4239	440092	10210	
5	01/12/2024	99	8951	5961	4412	439984	10250	
6	01/15/2024	99	8822	6233	4579	440062	10305	
7	01/15/2024	99	8956	6264	4619	440289	10227	
8	01/22/2024	100	8926	6034	4696	440120	10219	
9	01/23/2024	99	8969	5959	4375	440110	10098	
10	01/24/2024	98	8951	6085	4449	439927	10173	
11	01/25/2024	96	8672	6511	4682	439996	10174	
12	01/25/2024	98	8839	6045	4367	439980	10218	
13	01/26/2024	100	8525	6590	4660	439962	10119	
14	01/26/2024	98	8845	6491	4417	440038	10145	
15	01/27/2024	98	8591	6530	4661	440126	10125	
16	01/28/2024	98	8188	5900	4456	439941	10125	
17	01/29/2024	99	8392	6433	4586	439978	10143	
18	01/30/2024	99	7972	6471	5018	440004	10098	
19	01/30/2024	99	8512	6522	4675	440061	10071	
20	01/31/2024	100	8493	6098	4736	439938	10081	
21	02/01/2024	100	8329	6684	5026	440120	10088	
22	02/02/2024	99	8392	6686	4918	439984	10060	
23	02/02/2024	100	8523	6516	4572	440062	10052	
24	02/03/2024	96	9009	6488	4263	440057	10061	
25	02/04/2024	100	8568	6851	4818	440050	10030	
26	02/04/2024	100	8500	6292	4578	440023	10006	
27	02/05/2024	100	8409	6245	4460	439990	10015	
28	02/06/2024	99	8374	6412	4897	440011	10042	
29	02/06/2024	100	8175	6556	4907	439977	10004	
30	02/07/2024	94	8347	6322	4231	439978	10003	
31	02/08/2024	98	8657	6702	4553	440079	9982	
32	02/08/2024	99	8425	6636	4339	440046	9981	
33	02/09/2024	98	8477	6598	4646	440372	9963	
34	02/09/2024	99	8486	6544	4847	440002	9947	
35	02/10/2024	99	8362	6384	4439	440004	9953	
36	02/11/2024	86	8803	6737	4087	440814	11749	
37	02/11/2024	100	8077	6478	4519	440071	9941	
38	02/12/2024	99	8351	6368	4587	440211	9919	
39	02/14/2024	100	7940	6459	5250	440005	9884	
40	02/15/2024	100	8223	5817	4929	440340	9906	
41	02/15/2024	100	8118	5758	4363	440524	9908	
42	02/15/2024	99	7864	5922	4514	439941	9925	
43	02/16/2024	100	8073	6095	4482	440206	9901	

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08/16/2024

44	02/16/2024	100	7894	5577	4452	440218	9873
45	02/16/2024	100	7901	6111	4474	439972	9848
46	02/16/2024	100	7927	6848	4756	440016	9837
47	02/17/2024	99	8224	6474	4563	440166	9861
48	02/17/2024	100	8122	7035	4293	440071	9833
49	02/17/2024	100	7903	6867	4522	439953	9825
50	02/18/2024	100	7613	5988	4194	439648	9819
51	02/18/2024	99	7985	6511	4214	440128	9816
52	02/18/2024	99	8187	6990	4310	440063	9797
53	02/19/2024	99	8026	6450	4326	440377	9814
54	02/19/2024	99	8112	6537	4289	440358	9809
55	02/19/2024	98	8059	6805	4236	440041	9795
56	02/19/2024	100	8009	6946	4633	440305	9783
57	02/20/2024	100	7779	6493	4346	440510	9793
58	02/20/2024	100	7757	6783	4769	440030	9773
59	02/20/2024	100	8104	6734	4540	439983	9642
60	02/20/2024	100	7961	6081	4144	439961	9638
61	02/21/2024	99	8263	6696	4324	396362	8679

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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:	47-103-03530-00-00
Operator Name:	EQT Production
Well Name and Number:	Haggard 12H
Latitude:	39.654383
Longitude:	-80.620042
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7694
Total Base Water Volume (gal)*:	25425960
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	88.76362	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	11.10195	None
Clearal 268	ChemStream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.00900	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Copolymer of 2-propenamide	Proprietary	30.00000	0.00796	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Non-hazardous substances	Proprietary	90.00000		None
StimSTREAM	ChemStream	Friction					

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JUL 08 2024
WV Department of Environmental Protection

08/16/2024

FR 9800		Reducer					
			Petroleum Distillate	64742-47-8	20.00000	0.00354	None
Enviro-Syn HCR-7000-WL	Fluid Energy Group Ltd.	Synthetic Acid					
			Proprietary	Proprietary	20.00000	0.00090	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	0.00022	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00009	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00003	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00003	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
StimSTREAM 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

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.

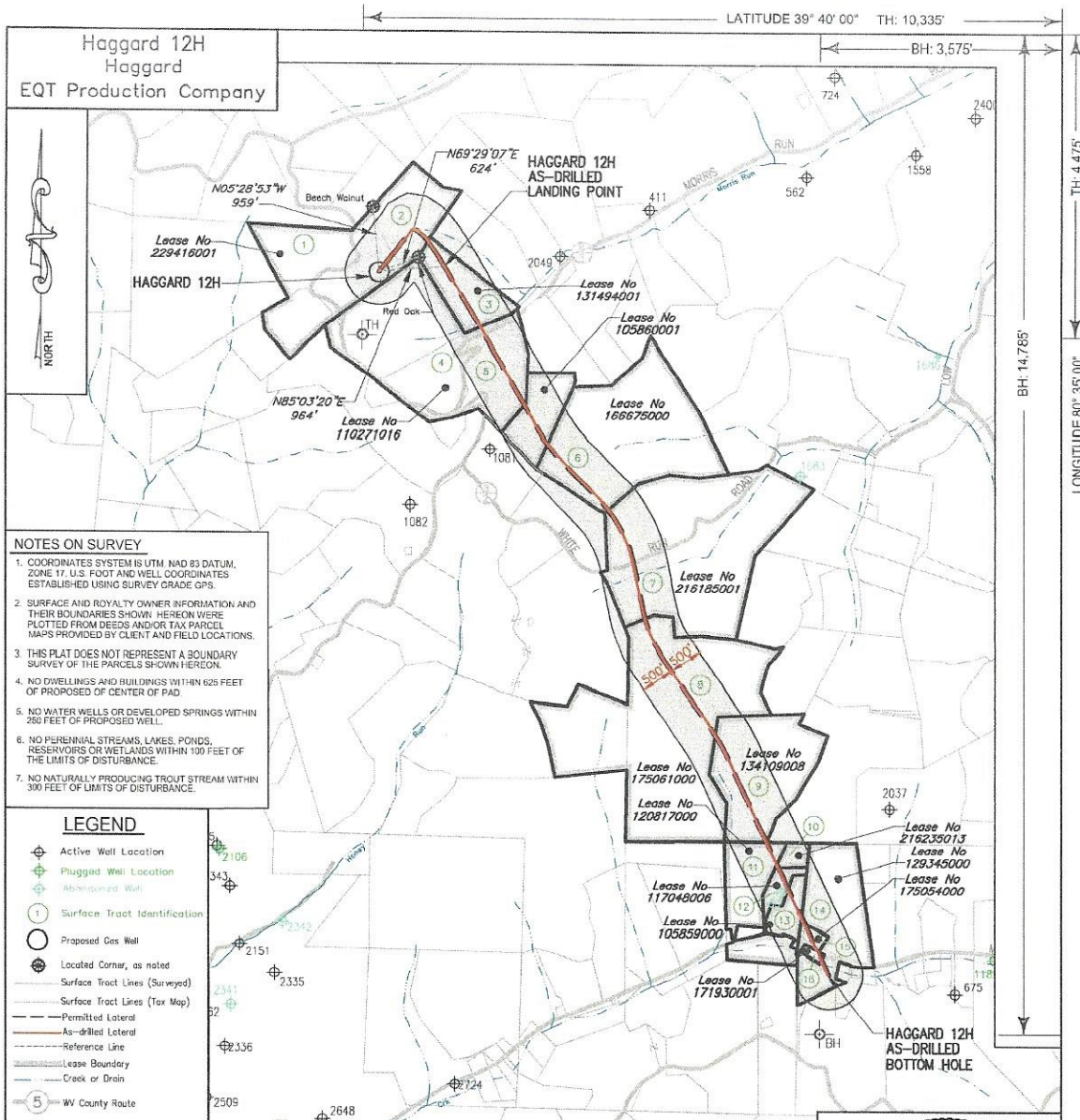
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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08/16/2024



NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED 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.

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

() 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.

L. L. S. 2394

L. L. S. 2394



FILE NO:
DRAWING NO:
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

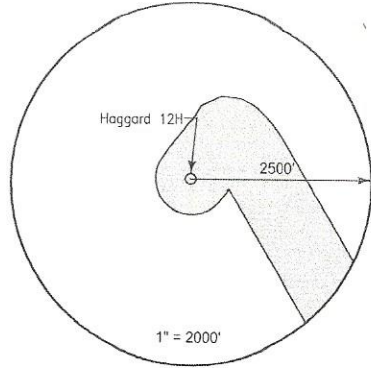
DATE: NOVEMBER, 27 20 23
OPERATORS WELL NO: Haggard 12H
API WELL NO
47 - 103 - 03530
STATE COUNTY PERMIT

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: 7,636
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Joseph C Mallow
ADDRESS: 400 Woodcliff Drive ADDRESS: 427 Midstate Drive
Canonsburg, PA 15317 Clarksburg, WV 26301

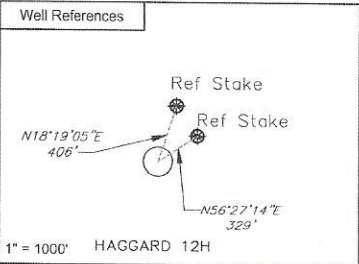
RECEIVED
Office of Oil and Gas
JUL 08 2024
WV Department of Environmental Protection

08/16/2024

Haggard 12H 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	27.0	Wetzel	Center	Scott L. Musgrave	35.00
3	10	39.0	Wetzel	Center	Rusty Lee Morris	25.12
4	10	53.0	Wetzel	Center	Rusty Lee Morris	22.02
5	10	54.0	Wetzel	Center	Ronnie E. & Yvonne M. Wade	65.79
6	10	56.0	Wetzel	Center	Patrick L. Morris	93.75
7	14	10.0	Wetzel	Center	Johnny Kenneth & Deborah K. Greathouse	122.00
8	14	33.0	Wetzel	Center	Dennis L. Hickle ET AL	144.00
9	15	42.0	Wetzel	Center	Sharon M. Dulaney ET AL	53.30
10	15	52.1	Wetzel	Center	Potts Cemetery	1.30
11	15	52.0	Wetzel	Center	Sharon M. Dulaney ET AL	25.95
12	15	52.2	Wetzel	Center	Richard F. Sapp EST & Bill Plaine Norris ET AL	4.50
13	15	53.0 & 53.2	Wetzel	Center	Richard F. Sapp EST & Helen C Sprout ET AL	9.75
14	15	55.0	Wetzel	Center	Milored A. Sapp	44.82
15	15	54.0	Wetzel	Center	April C. Criffield	2.30
16	15	55.2	Wetzel	Center	Darlene K. & Jason W. Daniels	1.03



Lease	Owner	Acres
229416001	Blackrock Enterprises LLC, et al	84.94 ac of 198.1275 ac
110271016	Vivian Rine, aka/ia Vivian L. Rine, et al	95.7 ac
131494001	Charles Lee Thomas, Trustee of The Charles Lee Thomas Trust et al	25.12 ac
105860001	Stone Hill Minerals Holdings, LLC, et al.	1,694.69 ac
166675000	AMP IV, LP, et al.	93.75 ac
216185001	Drilling Appalachian Corporation, et al.	122 ac
175061000	OXY USA, Inc., et al.	31.19 ac and 144 ac of 31,151.581 ac
134109008	Raymond Lee Yoho, et al.	53.25 ac
120817000	Raymond Lee Yoho, et al.	27.075 ac
216235013	Carmen Yvonne Blake, et al.	1.25 ac
117048006	Deborah Sapp, et al.	4.5 ac
105859000	Charles P. Mavey and Helen C. Mavey, husband and wife, et al.	9.75 ac
129345000	Appalachian Basin Minerals, LP, et al.	45.92 ac
175054000	April Glenmore Criffield, et al.	2.25 ac
171930001	Darlene K. Daniels and Jason W. Daniels, wife and husband, et al.	1.03 ac

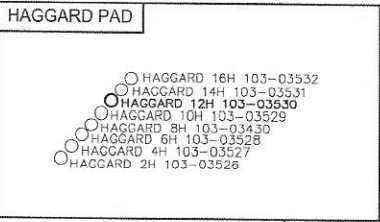


Notes:
 HAGGARD 12H coordinates are
 NAD 27 N: 422,388.837 E: 1,684,584.268
 NAD 27 Lat: 39.654302 Long: -80.620231
 NAD 83 UTM N: 4,389,467.252 E: 532,596.067

HAGGARD 12H Landing Point coordinates are
 NAD 27 N: 422,472.140 E: 1,685,567.480
 NAD 27 Lat: 39.654564 Long: -80.616614
 NAD 83 UTM N: 4,389,497.540 E: 532,889.101

HAGGARD 12H Bottom Hole coordinates are
 NAD 27 N: 411,993.630 E: 1,691,232.230
 NAD 27 Lat: 39.625989 Long: -80.596207
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West Virginia Coordinates system of 1927 (North Zone)
 based upon Differential GPS Measurements
 Plat orientation, Corner and well ties are based upon
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 Well location references are based upon the grid north
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L. S. Rowe
 L. L. S. 2394



FILE NO:
 DRAWING NO:
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: NOVEMBER 27 20 23
 OPERATORS WELL NO: Haggard 12H
 API WELL NO: 47 - 103 - 03530
 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: 7,636

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

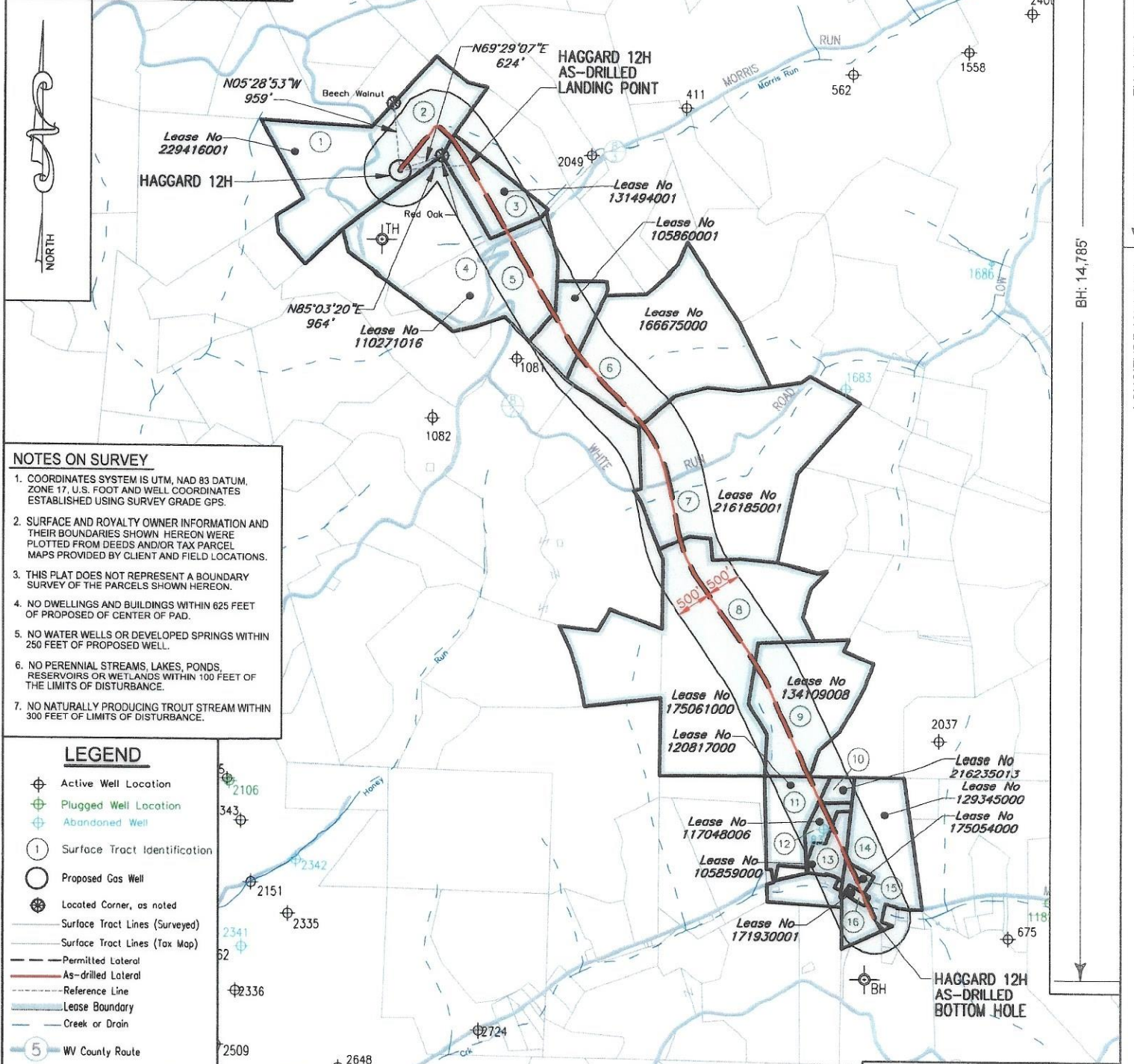
AS-08/16/2024

Haggard 12H
Haggard
EQT Production Company

BH: 3,575'

BH: 14,785'

TH: 4,475'
LONGITUDE 80° 35' 00"



NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17. U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
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L. L. S. 2394
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OIL AND GAS DIVISION

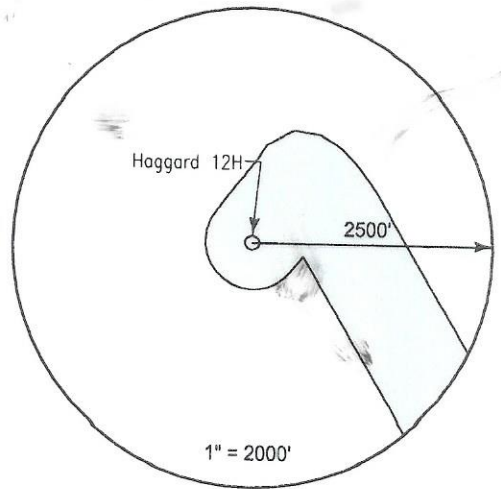
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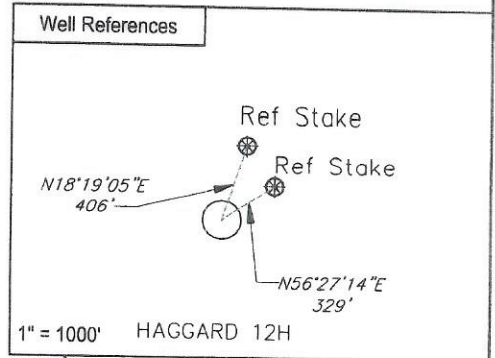
AS-DRILLED

Haggard 12H
Haggard
EQT Production Company

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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



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L. L. S. 2394



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 OIL AND GAS DIVISION

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