

# APPROVED

NAME:

*Andrew C. P...*

DATE

1/3/18

Well Operator's Report of Well Work

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Where energy meets innovation.

Well Number: 513064

API: 47 - 017 - 06755

Submission:  Initial  Amended

Notes:

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

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API 47-017-06755 County Doddridge District South West  
Quad Oxford Pad Name OXF155 Field/Pool Name N/A  
Farm name Haessly Land & Timber LLC Well Number 513064  
Operator (as registered with the OOG) EQT Production Company  
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing N. 4,340,483.12 Easting 516,421.50  
Landing Point of Curve Northing 4,340,511.58 Easting 516,406.06  
Bottom Hole Northing 4,341,236.32 Easting 516,021.50

Elevation (ft) 1199' 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)

Water base Mud 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, ferrocchrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 02/09/2016 Date drilling commenced 03/2/2017 Date drilling ceased 06/01/2017  
Date completion activities began 8/4/2017 Date completion activities ceased 9/11/2017  
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 59,183,204,262,419 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 132,252,292,532 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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01/05/2018

API 47-017 - 06755 Farm name Haessly Land & Timber LLC Well number 513064

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500	N/A	Y
Surface	17 1/2"	13 3/8"	567'	NEW	J-55	187, 145'	Y
Coal							
Intermediate 1	12 3/8"	9 5/8"	3466'	NEW	A-500	None	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	9732'	NEW	P-110	N/A	N
Tubing							
Packer type and depth set							

Comment Details N/A

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	48.9	15.6	1.18	57.7	0	8
Surface	CLASS A	636	15.6	1.20	763.2	0	8
Coal							
Intermediate 1	CLASS A / CLASS A	175 / 1050	15.6 / 15.6	1.18 / 1.2	1466.5	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS H / CLASS H	377/346	15.2 / 15.6	1.25 / 2.06	1,184	5100	72
Tubing							

Drillers TD (ft) 9740' Loggers TD (ft) N/A  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5010

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: 8 CENTRALIZERS AT JOINTS 1,3,8,9,12,15  
 INTERMEDIATE: 7 CENTRALIZERS PLACED EVERY 500'  
 PRODUCTION: 124 Spiral body composite centralizers placed every joint from bottom to 4500 ftMD.

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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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**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					<b>Please See Attached</b>

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 (bbls)	Amount of Nitrogen/other (units)
						<b>Please</b>	<b>See</b>	<b>Attached</b>

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6621'</u> TVD	<u>6909'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 900 psi Bottom Hole N/A psi DURATION OF TEST 69.00 hrs

OPEN FLOW Gas 6,436 mcfpd Oil N/A bpd NGL 54 bpd Water 941 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
<u>Oil Show</u>	<u>2337'</u>	<u>2337</u>	<u>2337</u>	<u>2337</u>	<u>Oil Show</u>

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling Rig 11  
Address 11565 State Route 676 City Vincent State OH Zip 45784

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

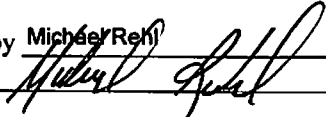
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Cementing Company BJ Cementing Services  
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Stimulating Company U.S. Well Services  
Address 770 S. Post Oak Lane City Houston State TX Zip 77056

Please insert additional pages as applicable.

Completed by Michael Rehl Telephone (412) 553-5815  
Signature  Title Director Completions Date 12/7/2017

API 47- 017 - 06755 Farm name Haessly Land & Timber LLC Well number 513064

Drilling Contractor Savanna Drilling (Rig 655)  
Address 125 Industry Road City Waynesburg State PA Zip 15370

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

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OXF155 513064 Final Formations

API: 47-017-06755

Formations

Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
SAND / SHALE	1	1	135	135
WASHINGTON COAL	135	135	137	137
SAND / SHALE	137	137	255	255
WAYNESBURG-A COAL	255	255	257	257
SAND / SHALE	257	257	295	295
UNIONTOWN COAL	295	295	297	297
SAND / SHALE	297	297	535	535
SWEICKLEY COAL	535	535	538	538
SAND / SHALE	538	538	1573	1573
MAXTON	1573	1573	1662	1662
SAND / SHALE	1662	1662	1918	1918
BIG LIME	1918	1918	2051	2051
SAND / SHALE	2051	2051	2208	2208
WEIR	2208	2208	2323	2323
SAND / SHALE	2323	2323	2419	2419
GANTZ	2419	2419	2503	2503
FIFTY FOOT	2503	2503	2566	2566
SAND / SHALE	2566	2566	2611	2611
THIRTY FOOT	2611	2611	2651	2651
GORDON	2651	2651	2695	2695
SAND / SHALE	2695	2695	2757	2757
FOURTH SAND	2757	2757	2792	2792
SAND / SHALE	2792	2792	2933	2933
BAYARD	2933	2933	3158	3158
SAND / SHALE	3158	3158	3256	3256
WARREN	3256	3256	3311	3311
SPEECHLEY	3327	3327	3419	3419
SAND / SHALE	3419	3419	3845	3845
BALLTOWN A	3845	3845	4003	4003
SAND / SHALE	4003	4003	4459	4459
RILEY	4459	4459	4515	4515
SAND / SHALE	4515	4515	4892	4892
BENSON	4892	4892	5007	5007
SAND / SHALE	5007	5007	5149	5149
ALEXANDER	5149	5149	5238	5234
ELK	5238	5234	6362	6264
SONYEA	6362	6264	6500	6389
MIDDLESEX	6500	6389	6610	6475
GENESEE	6610	6475	6721	6544
GENESEO	6721	6544	6821	6591
TULLY	6821	6591	6876	6610
HAMILTON	6876	6610	6909	6621
MARCELLUS	6909	6621	9740	6612

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**513064 47-017-06755-0000 - Additional Stimulating Company Information**

Stimulating Company Universal Well Services

Address 730 Braddock View Drive City Lemont Furnace State PA Zip 15456

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**513065 47-017-06756-0000 - Perforations**

<b>Stage Number</b>	<b>Perforation Date</b>	<b>Top Perf Depth (ftKB)</b>	<b>Bottom Perf Depth (ftKB)</b>	<b>Number of Shots</b>	<b>Formation</b>
<b>Initiation Sleeve</b>	7/23/2017	9,708	9,732	10	MARCELLUS
<b>1</b>	8/14/2017	9,587	9,679	32	MARCELLUS
<b>2</b>	8/15/2017	9,437	9,559	40	MARCELLUS
<b>3</b>	8/15/2017	9,287	9,409	40	MARCELLUS
<b>4</b>	8/15/2017	9,137	9,259	40	MARCELLUS
<b>5</b>	9/1/2017	8,987	9,109	40	MARCELLUS
<b>6</b>	9/1/2017	8,837	8,959	40	MARCELLUS
<b>7</b>	9/1/2017	8,687	8,809	40	MARCELLUS
<b>8</b>	9/2/2017	8,537	8,659	40	MARCELLUS
<b>9</b>	9/3/2017	8,387	8,509	40	MARCELLUS
<b>10</b>	9/4/2017	8,237	8,359	40	MARCELLUS
<b>11</b>	9/5/2017	8,087	8,209	40	MARCELLUS
<b>12</b>	9/5/2017	7,937	8,056	40	MARCELLUS
<b>13</b>	9/7/2017	7,787	7,909	40	MARCELLUS
<b>14</b>	9/7/2017	7,637	7,759	40	MARCELLUS
<b>15</b>	9/8/2017	7,487	7,609	40	MARCELLUS
<b>16</b>	9/9/2017	7,337	7,459	40	MARCELLUS
<b>17</b>	9/9/2017	7,187	7,309	40	MARCELLUS
<b>18</b>	9/9/2017	7,037	7,159	40	MARCELLUS
<b>19</b>	9/9/2017	6,887	7,009	40	MARCELLUS

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**513065 47-017-06756-0000 - Stimulated Stages**

<b>Stage Number</b>	<b>Stimulation Date</b>	<b>Ave Pump Rate (BPM)</b>	<b>Ave Treatment Pressure (PSI)</b>	<b>Max Breakdown Pressure (PSI)</b>	<b>ISIP (PSI)</b>	<b>Amount of Proppant (lbs)</b>	<b>Amount of Water (bbls)</b>	<b>Amount of Nitrogen/other (units)</b>
Initiation Sleeve	8/4/2017	12	7,713.00	9,556.00	4,529.00	0	632	0
Initiation Sleeve	8/14/2017	10	8,223.00	9,217.00	4,092.00	0	550	0
1	8/14/2017	90	7,028.20	7,445.80	2,496.00	447500	7,710	0
2	8/14/2017	90	6,876.00	7,727.00	2,708.00	450300	7,918	0
3	8/15/2017	90	7,119.70	8,149.30	2,851.00	449100	7,473	0
4	8/15/2017	92	6,845.00	7,251.00	2,755.00	446700	7,993	0
5	8/15/2017	92	7,270.10	8,450.10	3,426.00	448300	8,187	0
6	9/1/2017	94	8,764.00	9,278.00	3,067.00	451029	7,536	0
7	9/1/2017	97	8,582.00	8,849.00	3,611.00	450500	7,294	0
8	9/2/2017	99	8,575.00	9,226.00	3,161.00	451300	7,439	0
9	9/3/2017	100	8,463.00	8,725.00	3,229.00	449600	6,763	0
10	9/4/2017	80	8,915.00	9,716.00	4,357.00	218900	7,158	0
11	9/5/2017	98	8,509.00	8,978.00	3,499.00	605800	9,681	0
12	9/7/2017	98	8,537.00	8,824.00	3,918.00	453200	6,999	0
13	9/7/2017	100	8,456.00	8,757.00	3,584.00	453900	6,826	0
14	9/8/2017	95	8,550.00	9,028.00	4,219.00	454300	7,047	0
15	9/8/2017	99	8,257.00	8,866.00	3,639.00	450800	7,345	0
16	9/9/2017	94	8,414.00	9,312.00	4,715.00	352500	6,141	0
17	9/9/2017	100	7,822.00	8,084.00	3,983.00	451100	7,135	0
18	9/9/2017	100	7,773.00	9,007.00	3,297.00	453700	7,352	0
19	9/11/2017	99	8,140.00	8,982.00	2,970.00	453100	7,250	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/4/2017
Job End Date:	9/11/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06755-00-00
Operator Name:	EQT Production
Well Name and Number:	513064
Latitude:	39.21338400
Longitude:	-80.80995700
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,621
Total Base Water Volume (gal):	5,879,034
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	USWS	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	85.03023	None
MC MX 5-3886	Multi-Chem Group	Specialty Brine					
				Listed Below			

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WGA-7 SLR	UWS	Gelling Agent					
				Listed Below			
SI-1200S	USWS	Scale Inhibitor					
				Listed Below			
Sand (Proppant)	USWS	Proppant					
				Listed Below			
MX 7-3971	USWS	Defoamer					
				Listed Below			
Hydrochloric Acid (15%)	USWS	Acid					
				Listed Below			
WFRC-2100	USWS	Cationic Friction Reducer					
				Listed Below			
Unihib-G	UWS	Acid Corrosion Inhibitor					
				Listed Below			
SFR-451	Clariant	Friction Reducer					
				Listed Below			
WFRC-2200	USWS	Processing Aid - Industrial Applications					

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				Listed Below			
Scale-Hib A21	UWS	Scale Inhibitor					
				Listed Below			
NWA-200s	USWS	FR Activator					
				Listed Below			
Alpha Flo-2FE	USWS	Surfactant					
				Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List					
				Listed Below			
MC MX 8-2544	Multi-Chem Group	Live Culture - Nitrate Reducing Bacteria					
				Listed Below			
LT Flush System I	USWS	Base / Flush Oil					
				Listed Below			
AI-303	USWS	Acid Corrosion Inhibitor					
				Listed Below			

Items above are Trade Names with the exception of Base Water . Items below are the individual Ingredients.

			Silica Substrate	14808-60-7	100.00000	14.54412	None
			Calcium Nitrate.4H2O	13477-34-4	100.00000	0.10548	None
			Hydrochloric Acid	7647-01-0	15.00000	0.02931	None

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		Petroleum distillates, hydrotreated light	64742-47-8	30.00000	0.01574	None
		Petroleum distillates, hydrotreated light	64742-47-8	30.00000	0.01574	
		Sodium Chloride	7647-14-5	100.00000	0.00935	None
		Distillates (petroleum), hydrotreated Light	64742-47-8	30.00000	0.00620	
		Distillates (petroleum), hydrotreated Light	64742-47-8	30.00000	0.00620	None
		Hydrotreated light distillate (petroleum)	64742-47-8	100.00000	0.00541	None
		Ammonium Acetate	631-61-8	10.00000	0.00525	
		Ammonium Acetate	631-61-8	10.00000	0.00525	None
		Proprietary Activating Agent	Proprietary	100.00000	0.00520	None
		Amine Triphosphate	Proprietary	30.00000	0.00506	None
		Amine Triphosphate	Proprietary	30.00000	0.00506	
		Alcohols, C12-14, ethoxylated	68439-50-9	5.00000	0.00262	
		Alcohols, C10-16, ethoxylated	68002-97-1	5.00000	0.00262	None
		Alcohols, C12-14, ethoxylated	68439-50-9	5.00000	0.00262	None
		Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00262	
		Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00262	None
		Alcohols, C10-16, ethoxylated	68002-97-1	5.00000	0.00262	
		Alcohols, C10-14, ethoxylated	66455-15-0	50.00000	0.00226	None
		Alcohols, C10-14, ethoxylated	66455-15-0	50.00000	0.00226	
		Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00103	
		Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00103	None

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			Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00084	None
			Ethylene glycol	107-21-1	5.00000	0.00084	
			Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00084	
			Ethylene glycol	107-21-1	5.00000	0.00084	None
			Guar Gum	9000-30-0	55.00000	0.00055	
			Guar Gum	9000-30-0	55.00000	0.00055	None
			Distillates (petroleum),hydrotreated Light	64742-47-8	55.00000	0.00055	None
			Distillates (petroleum),hydrotreated Light	64742-47-8	55.00000	0.00055	
			Sodium nitrate	7631-99-4	5.00000	0.00047	None
			Alkyl phosphonic Acid	Proprietary	5.00000	0.00037	None
			Methanol	67-56-1	30.00000	0.00037	None
			Methanol	67-56-1	30.00000	0.00037	
			Cationic copolymer of acrylamide	69418-26-4	30.00000	0.00015	
			Hydrotreated light distillate (petroleum)	64742-47-8	30.00000	0.00015	None
			Cationic copolymer of acrylamide	69418-26-4	30.00000	0.00015	None
			Butyl diglycol	0000112-34-5	75.00000	0.00008	None
			Butyl diglycol	0000112-34-5	75.00000	0.00008	
			Alcohols, C10-16, ethoxylated	0068002-97-1	50.00000	0.00005	None
			Alcohols, C10-16, ethoxylated	0068002-97-1	50.00000	0.00005	
			Ammonia	7664-41-7	0.50000	0.00004	None
			Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00002	None
			Proprietary ingredient	Proprietary	5.00000	0.00002	None
			Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00002	
			Proprietary ingredient	Proprietary	5.00000	0.00002	

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			Ethylene glycol	107-21-1	40.00000	0.00002	None
			Naphtha, hydrotreated heavy	64742-48-9	1.00000	0.00001	None
			Naphtha, hydrotreated heavy	64742-48-9	1.00000	0.00001	
			Butyl cellosolve	111-76-2	20.00000	0.00001	None
			Cinnamaldehyde	104-55-2	20.00000	0.00001	None
			Formic acid	64-18-6	20.00000	0.00001	None
			Methanol	0000067-56-1	5.00000	0.00001	None
			Methanol	0000067-56-1	5.00000	0.00001	
			Polyether	Proprietary	10.00000	0.00000	None
			Acetophenone, thiourea, formaldehyde polymer	68527-49-1	5.00000	0.00000	None
			Formaldehyde	0000050-00-0	1.00000	0.00000	None
			Thiourea	0000062-56-6	1.00000	0.00000	None
			Formaldehyde	0000050-00-0	1.00000	0.00000	
			Thiourea	0000062-56-6	1.00000	0.00000	

\* 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%

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

RECEIVED Gas  
Office of Oil and Gas  
DEC 8 2017  
MN Department of  
Environmental Protection

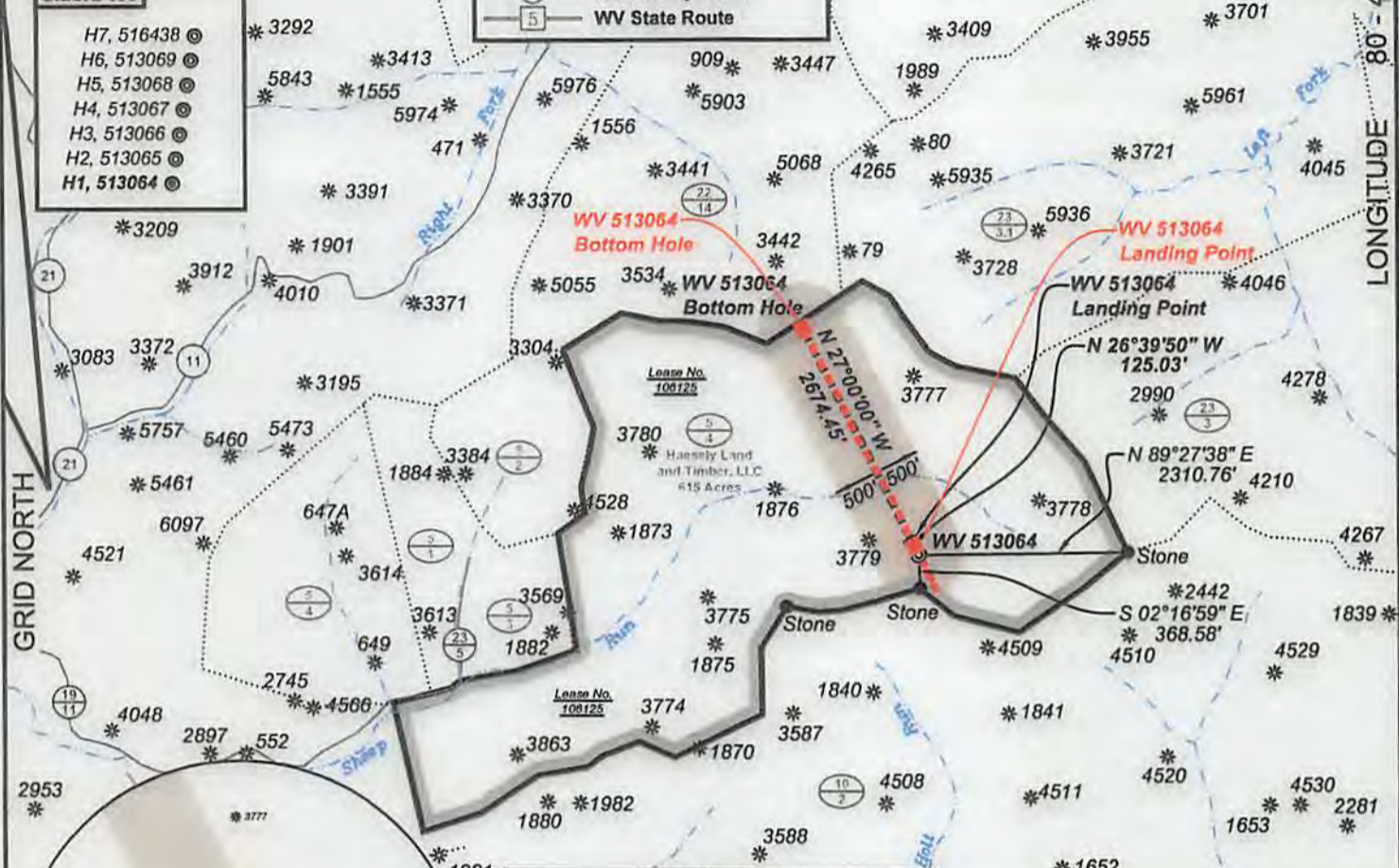


**WV 513064**  
**EQT Production Company**  
**Oxford 155**

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

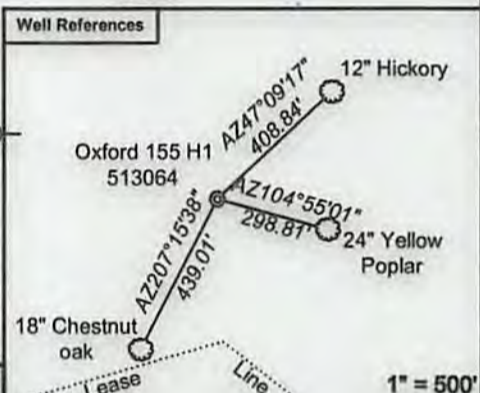
LATITUDE 39 - 15 - 00  
 LONGITUDE 80 - 47 - 30

- Oxford 155**
- H7, 516438
  - H6, 513069
  - H5, 513068
  - H4, 513067
  - H3, 513066
  - H2, 513065
  - H1, 513064



**As-Drilled Well Information:**  
 WV 513064 coordinates:  
 NAD 27 N: 262,535.27 E: 1,628,838.12  
 NAD 83 UTM N: 4,340,483.12 E: 516,421.50  
 WV 513064 Landing Point coordinates:  
 NAD 27 N: 262,629.50 E: 1,628,789.02  
 NAD 83 UTM N: 4,340,511.58 E: 516,406.06  
 WV 513064 Bottom Hole coordinates:  
 NAD 27 N: 265,028.87 E: 1,627,566.76  
 NAD 83 UTM N: 4,341,236.32 E: 516,021.50

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.



(- ⊕ -) 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: 239-13  
 DRAWING NO: Oxford 155 H1  
 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: September 15 20 17  
 OPERATOR'S WELL NO. 513064  
 API WELL NO. 47 - 017 - 06755  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION: ELEVATION: Original 1210 Proposed 1199 WATERSHED Sheep Run of South Fork of Hughes River QUADRANGLE: Oxford  
 DISTRICT: South West COUNTY: Doddridge  
 SURFACE OWNER: Haessly Land & Timber, LLC ACREAGE: 615  
 ROYALTY OWNER: Eli Nutter Heirs LEASE NO: 106125 ACREAGE: 615  
 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: TVD 6,811

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray  
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280  
 Bridgeport, WV 26330 Bridgeport, WV 26330

01/05/2018

ADDRESS: 112 Professional Place PO Box 380  
 MEET OPERATOR: EOT Production Company

DESIGNATED AGENT: Rex C. Ray

PROPOSED WORK:  DRILL  COMPLET  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

DISTRICT: South West COUNTY: Doddridge

LOCATION: ELEVATION: (If Gas) PRODUCTION:  STORAGE  DEEP  SHALLOW

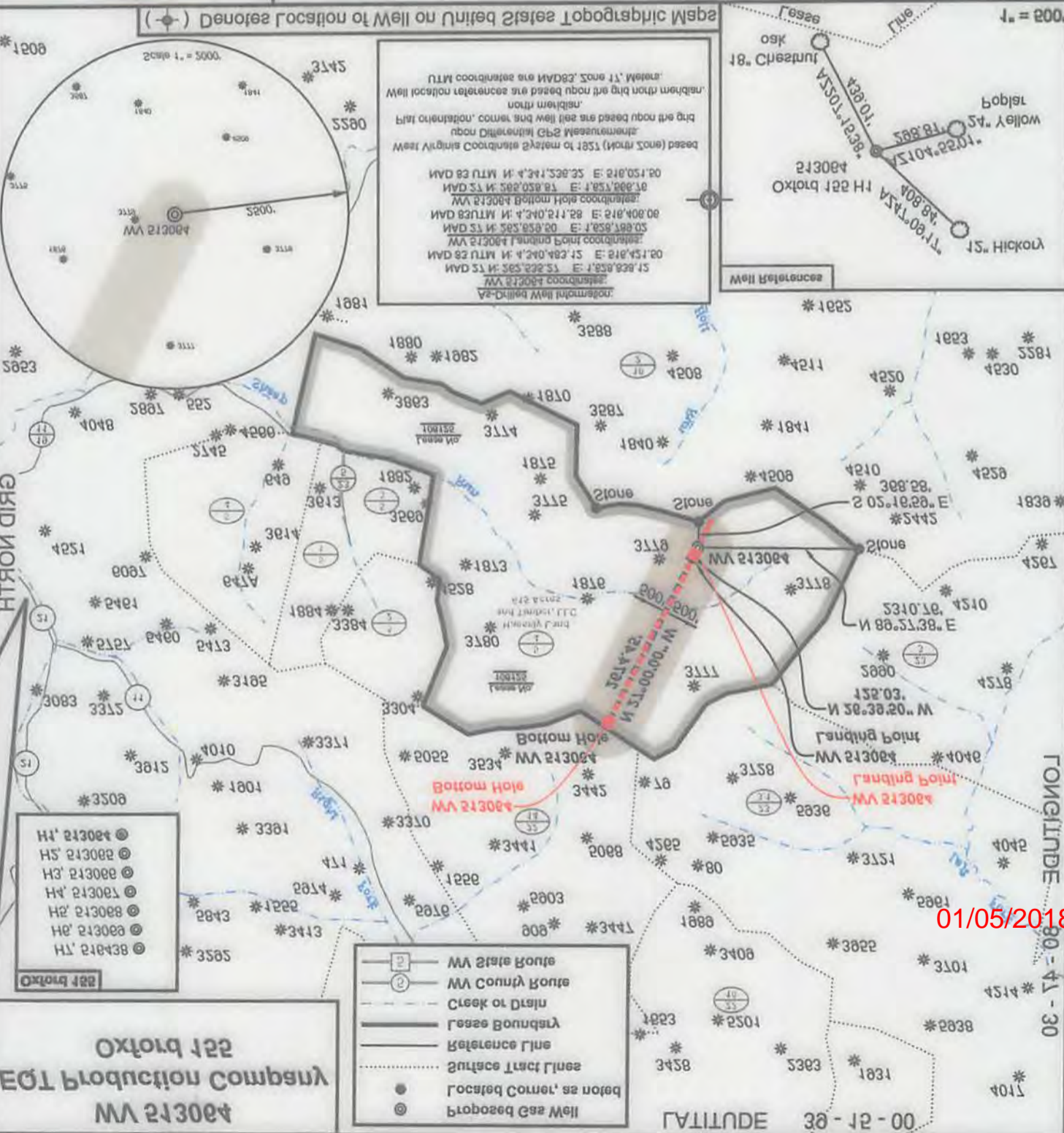
PROVEN SOURCE OF ELEVATION: 1:5200  
 MINIMUM DEGREE OF ACCURACY: SCALE: 1" = 5000'  
 DRAWING NO: Oxford 122 H1  
 FILE NO: 338-13

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

STATE COUNTY PERMIT  
 WV - 010 - 00122  
**API WELL NO**  
 OPERATORS WELL NO: 213084  
 DATE: September 12 2017

B'S. 3085

Department of Environmental Protection  
 the regulations issued and prescribed by the  
 and shows all the information required by law and  
 correct to the best of my knowledge and belief  
 I, the undersigned, hereby certify that this plat is



01/05/2018