

APPROVED

NAME: *Jul G. M.*

DATE *1/3/19*

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 513065

API: 47 - 017 - 06756

Submission: Initial Amended

Notes:

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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 - 06756 County Doddridge District South West
Quad Oxford Pad Name OXF155 Field/Pool Name N/A
Farm name Haessly Land & Timber LLC Well Number 513065
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 4,340,487.65 Easting 516,422.14
Landing Point of Curve Northing 4,339,936.53 Easting 515,609.18
Bottom Hole Northing 4,340,556.00 Easting 515,276.54

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 11.5 ppg, Synthetic Base Mud 11.5 ppg, barium sulfate, sodium chloride, xanthan gum, polymeric 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 02/09/2016 Date drilling commenced 03/9/2017 Date drilling ceased 07/082017
Date completion activities began 8/4/2017 Date completion activities ceased 8/29/2017
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 1462 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

Reviewed by: _____

01/05/2018

API 47-017 - 06756

Farm name Haessly Land & Timber LLC

Well number 513065

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"	569'	NEW	J-55	357'	Y
Coal							
Intermediate 1	12 3/8"	9 5/8"	3469'	NEW	A-500	None	Y
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	11665'	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 ³ /sks)	Volume (ft ³)	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	774 / 377	15.2 / 15.6	1.25 / 1.18	1781.45	4900	72
Tubing							

Drillers TD (ft) 11676

Loggers TD (ft) N/A

Deepest formation penetrated _____

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 4980

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: 2 CENTRALIZERS AT JOINTS 1 and 10

INTERMEDIATE: 8 CENTRALIZERS PLACED EVERY 500'

PRODUCTION: 120 Spiral body composite centralizers placed every joint from bottom to 5100 RMD.

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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API 47- 017 - 06756 Farm name Haessly Land & Timber LLC Well number 513065

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please 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 (bbls)	Amount of Nitrogen/other (units)
								Please See Attached

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6,660</u> TVD	<u>9,035</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 928 psi Bottom Hole N/A psi DURATION OF TEST 64 hrs

OPEN FLOW Gas 6,212 mcfpd Oil N/A bpd NGL 54 bpd Water 889 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
SW & Oil Show	1462	1462	1462	1462	SW & Oil Show

Please insert additional pages as applicable.

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

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

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, Suite 405 City Houston State TX Zip 77056

Please insert additional pages as applicable.

Completed by James Abbott Telephone (412) 553-5996
Signature [Signature] Title Completions Director Date 11/21/2017

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47- 017 - 06756 Farm name Haessly Land & Timber LLC Well number 513065

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

Logging Company Baker Hughes
Address 4000 Town Center Blvd City Canonsburg State PA Zip 15317

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Well # 513065 Final Formations API # 47-017-06756

Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
SAND / SHALE	1	1	137	137
WASHINGTON COAL	135	135	137	137
SAND / SHALE	134	134	252	252
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
SEWICKLEY COAL	535	535	538	538
SAND / SHALE	538	538	1,573.00	1,573.00
MAXTON	1,573.00	1,573.00	1,662.00	1,662.00
SAND / SHALE	1,662.00	1,662.00	1,918.00	1,918.00
BIG LIME	1,918.00	1,918.00	2,051.00	2,051.00
SAND / SHALE	2,051.00	2,051.00	2,208.00	2,208.00
WEIR	2,208.00	2,208.00	2,322.00	2,322.90
SAND / SHALE	2,322.00	2,322.90	2,419.00	2,418.90
GANTZ	2,419.00	2,418.90	2,503.00	2,502.90
FIFTY FOOT	2,503.00	2,502.90	2,566.00	2,565.90
SAND / SHALE	2,566.00	2,565.90	2,611.00	2,610.90
THIRTY FOOT	2,611.00	2,610.90	2,651.00	2,650.90
GORDON	2,651.00	2,650.90	2,695.00	2,694.90
SAND / SHALE	2,695.00	2,694.90	2,757.00	2,756.90
FOURTH SAND	2,757.00	2,756.90	2,792.00	2,791.90
SAND / SHALE	2,792.00	2,791.90	2,933.00	2,932.90
BAYARD	2,933.00	2,932.90	3,158.00	3,157.90
SAND / SHALE	3,158.00	3,157.90	3,256.00	3,255.90
WARREN	3,256.00	3,255.90	3,311.00	3,310.90
SAND / SHALE	3,311.00	3,310.90	3,327.00	3,326.90
SPEECHLEY	3,327.00	3,326.90	3,419.00	3,418.90
SAND / SHALE	3,419.00	3,418.90	3,845.00	3,844.90
BALLTOWN A	3,845.00	3,844.90	4,003.00	4,002.90
SAND / SHALE	4,003.00	4,002.90	4,459.00	4,458.90
RILEY	4,459.00	4,458.90	4,515.00	4,514.90
SAND / SHALE	4,515.00	4,514.90	4,892.00	4,891.80
BENSON	4,892.00	4,891.80	5,007.00	5,006.10
SAND / SHALE	5,007.00	5,006.10	5,149.00	5,143.00
ALEXANDER	5,149.00	5,143.00	5,238.00	5,225.90
ELK	5,238.00	5,225.90	7,836.00	6,284.30
SONYEA	7,836.00	6,284.30	8,196.00	6,412.10
MIDDLESEX	8,196.00	6,412.10	8,321.00	6,456.20
GENESEE	8,321.00	6,456.20	8,760.00	6,593.70
GENESEO	8,760.00	6,593.70	8,915.00	6,633.80
TULLY	8,915.00	6,633.80	8,994.00	6,652.20
HAMILTON	8,994.00	6,652.20	9,035.00	6,660.30
MARCELLUS	9,035.00	6,660.30	11,676.00	6,610.00

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513065 47-017-06756-0000 - 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

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	7/21/2017	11,641	11,665	10	MARCELLUS
1	8/5/2017	11,482	11,600	32	MARCELLUS
2	8/5/2017	11,282	11,440	40	MARCELLUS
3	8/6/2017	11,080	11,242	40	MARCELLUS
4	8/6/2017	10,880	11,042	40	MARCELLUS
5	8/6/2017	10,680	10,842	40	MARCELLUS
6	8/6/2017	10,480	10,642	40	MARCELLUS
7	8/6/2017	10,280	10,442	40	MARCELLUS
8	8/7/2017	10,080	10,242	40	MARCELLUS
9	8/7/2017	10,000	9,962	24	MARCELLUS
10	8/8/2017	9,680	9,822	40	MARCELLUS
11	8/29/2017	9,480	9,642	40	MARCELLUS
12	8/29/2017	9,280	9,446	40	MARCELLUS
13	8/29/2017	9,080	9,242	40	MARCELLUS

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	A	B	C	D	E	F	G	H	I
1	513065 47-017-06756-0000 - Stimulated Stages								
2	Stage Number	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)
3	1	8/5/2017	17	6,319.00	6,994.00	3,996.00	0	840.00	0
4	1	8/5/2017	92	7,707.00	8,776.00	2,739.00	450,600.00	8,044.00	0
5	2	8/5/2017	94	7,629.00	9,291.00	3,911.00	450,500.00	9,881.00	0
6	3	8/6/2017	94	7,560.00	7,916.00	2,829.00	448,500.00	8,456.00	0
7	4	8/6/2017	94	7,612.00	8,053.00	2,718.00	449,100.00	7,584.00	0
8	5	8/6/2017	96	7,918.00	8,937.00	2,774.00	449,000.00	7,577.00	0
9	6	8/6/2017	94	7,758.00	8,663.00	2,741.00	450,700.00	7,555.00	0
10	7	8/7/2017	96	7,311.00	7,833.00	2,783.00	449,600.00	7,554.00	0
11	8	8/7/2017	96	7,361.50	7,612.60	2,654.00	447,400.00	7,546.00	0
12	9	8/7/2017	96	7,671.00	8,867.00	2,806.00	450,400.00	7,354.00	0
13	10	8/8/2017	18	7,226.90	9,269.70	4,857.00	7,000.00	3,128.00	0
14	10	8/8/2017	2	6,818.00	9,344.00	5,133.00	0	994.00	0
15	10	8/29/2017	89	9,158.00	9,859.00	3,524.00	447,400.00	8,366.00	0
16	11	8/29/2017	95	8,442.00	8,876.00	3,456.00	381,600.00	7,539.00	0
17	12	8/29/2017	91	8,569.00	9,039.00	3,411.00	451,600.00	9,707.00	0
18	13	8/29/2017	95	8,714.00	9,329.00	3,855.00	453,400.00	8,767.00	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/4/2017
Job End Date:	8/29/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06756-00-00
Operator Name:	EQT Production
Well Name and Number:	513065
Latitude:	39.21345000
Longitude:	-80.80995000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,660
Total Base Water Volume (gal):	4,657,464
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	86.72588	None
Other Chemical (s)	Listed Above	See Trade Name (s) List					
				Listed Below			

Sand (Proppant)	USWS	Proppant				
				Listed Below		
Scale Hib-E	UWS	Scale Inhibitor				
				Listed Below		
AP ONE	USWS	Breaker				
				Listed Below		
MC MX 5-3886	Multi-Chem Group	Specialty Brine				
				Listed Below		
AI-303	USWS	Acid Corrosion Inhibitor				
				Listed Below		
NWA-200s	USWS	FR Activator				
				Listed Below		
SI-1200s	USWS	Scale Inhibitor				
				Listed Below		
WFRC-2100	USWS	Cationic Friction Reducer				
				Listed Below		
LGC-15	USWS	Water Gelling Agent				

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				Listed Below			
LT Flush System I	USWS	Base / Flush Oil					
				Listed Below			
Hydrochloric Acid (15%)	USWS	Acid					
				Listed Below			
MC MX 8-2544	Multi-Chem Group	Live Culture - Nitrate Reducing Bacteria					
				Listed Below			
SFR-451	Clariant	Friction Reducer					
				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	12.91253	None
			Calcium Nitrate.4H2O	13477-34-4	100.00000	0.10661	None
			Hydrochloric Acid	7647-01-0	15.00000	0.02542	None
			Proprietary Activating Agent	Proprietary	100.00000	0.01395	None
			Proprietary Activating Agent	Proprietary	100.00000	0.01395	
			Hydrotreated light distillate (petroleum)	64742-47-8	100.00000	0.01193	None
			Hydrotreated light distillate (petroleum)	64742-47-8	100.00000	0.01193	
			Sodium Chloride	7647-14-5	100.00000	0.00941	None
			Petroleum Distillates , Hydrotreated Light	64742-47-8	30.00000	0.00641	
			Petroleum Distillates , Hydrotreated Light	64742-47-8	30.00000	0.00641	None
			Ammonium Acetate	631-61-8	10.00000	0.00214	

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			Ammonium Acetate	631-61-8	10.00000	0.00214	None
			Hydrotreated light distillate (petroleum)	64742-47-8	30.00000	0.00157	
			Cationic copolymer of acrylamide	69418-26-4	30.00000	0.00157	
			Cationic copolymer of acrylamide	69418-26-4	30.00000	0.00157	None
			Hydrotreated light distillate (petroleum)	64742-47-8	30.00000	0.00157	None
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00143	
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00143	None
			Alcohols, C12-14, Ethoxylated	68439-50-9	5.00000	0.00107	
			Alcohols, C10-16, Ethoxylated	68002-97-1	5.00000	0.00107	None
			Alcohols, C12-16, Ethoxylated	68551-12-2	5.00000	0.00107	
			Alcohols, C10-16, Ethoxylated	68002-97-1	5.00000	0.00107	
			Alcohols, C12-16, Ethoxylated	68551-12-2	5.00000	0.00107	None
			Alcohols, C12-14, Ethoxylated	68439-50-9	5.00000	0.00107	None
			Alkyl phosphonic acid	Proprietary	5.00000	0.00081	
			Alkyl phosphonic acid	Proprietary	5.00000	0.00081	None
			Sodium nitrate	7631-99-4	5.00000	0.00047	None
			DETA Phosphonate	15827-60-8	5.00000	0.00036	
			Phosphino Carboxylic Acid Polymer	71050-62-9	5.00000	0.00036	None
			Phosphino Carboxylic Acid Polymer	71050-62-9	5.00000	0.00036	
			Hexamethylene Triamine Penta	34690-00-1	5.00000	0.00036	
			DETA Phosphonate	15827-60-8	5.00000	0.00036	None
			Hexamethylene Triamine Penta	34690-00-1	5.00000	0.00036	None
			Proprietary Ingredient	Proprietary	5.00000	0.00026	

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			Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00026	None
			Proprietary Ingredient	Proprietary	5.00000	0.00026	None
			Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00026	
			Ammonia	7664-41-7	0.50000	0.00008	None
			Ammonia	7664-41-7	0.50000	0.00008	
			Other Components Below Reportable Levels	Proprietary	60.00000	0.00006	
			Other Components Below Reportable Levels	Proprietary	60.00000	0.00006	None
			Petroleum Distillates	64742-47-8	60.00000	0.00006	None
			Ammonium Persulfate	7727-54-0	100.00000	0.00004	None
			Ethylene glycol	107-21-1	40.00000	0.00003	None
			Formic acid	64-18-6	20.00000	0.00002	None
			Cinnamaldehyde	104-55-2	20.00000	0.00002	None
			Butyl cellosolve	111-76-2	20.00000	0.00002	None
			Polyether	Proprietary	10.00000	0.00001	None
			Acetophenone, thiourea, formaldehyde polymer	68527-49-1	5.00000	0.00000	None

* 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)

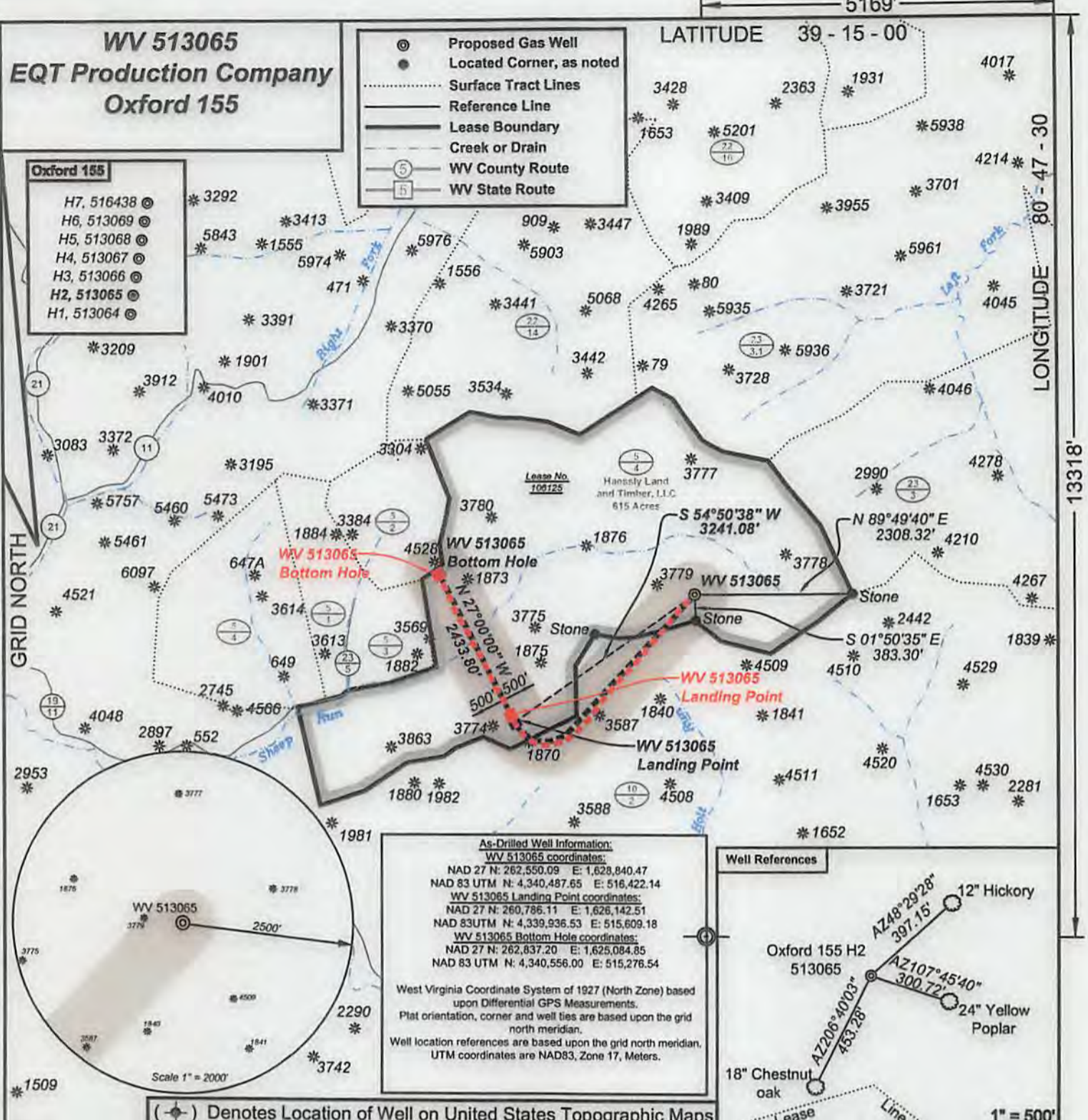
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WV 513065
EQT Production Company
Oxford 155

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 513065 coordinates:
 NAD 27 N: 262,550.09 E: 1,628,840.47
 NAD 83 UTM N: 4,340,487.65 E: 516,422.14
WV 513065 Landing Point coordinates:
 NAD 27 N: 260,786.11 E: 1,626,142.51
 NAD 83 UTM N: 4,339,936.53 E: 515,609.18
WV 513065 Bottom Hole coordinates:
 NAD 27 N: 262,837.20 E: 1,625,084.85
 NAD 83 UTM N: 4,340,556.00 E: 515,276.54

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.



(-o-) 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 H2
 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. 513065
 API WELL NO. 47 - 017 - 06756
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: Original 1210.5 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 6,611

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