

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

API 47-017-06760 County Doddridge District South West
Quad Oxford Pad Name OXF155 Field/Pool Name N/A
Farm name Haessly Land & Timber LLC Well Number 513069
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 4,340,505.75 Easting 516,424.71
Landing Point of Curve Northing 4,340,944.291 Easting 516,452.66
Bottom Hole Northing 4,341,365.28 Easting 516,226.68

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, 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 02/09/2016 Date drilling commenced 03/28/2017 Date drilling ceased 6/22/2017
Date completion activities began 8/31/2017 Date completion activities ceased 03/21/2018
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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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 1418 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:
07/20/2018

API 47-017 - 06760

Farm name Haessly Land & Timber LLC

Well number 513069

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"	566'	NEW	J-55	333'	Y
Coal							
Intermediate 1	12 3/8"	9 5/8"	3465'	NEW	A-500	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	10,189'	NEW	P-110	N/A	N
Tubing							
Packer type and depth set							

Comment Details Cement basket at 373'

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	827	15.6	1.20	992.4	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	401 / 390	15.2 / 15.6	1.25 / 2.03	1605.65	4700'	72
Tubing							

Drillers TD (ft) 10,195' Loggers TD (ft) N/A
 Deepest formation penetrated _____ Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 4503'

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' FEET TO SURFACE
INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE
PRODUCTION: 109 Spiral body composite centralizers placed every joint from bottom

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 017 - 06760 Farm name Haessly Land & Timber LLC Well number 513069

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

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6,631'	TVD 7,189' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 592 psi Bottom Hole N/A psi DURATION OF TEST 145 hrs

OPEN FLOW Gas 5,802 mcfpd Oil N/A bpd NGL 8.4 bpd Water 1,825 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	
SW & Oil Show	0 1422	1422	0 1422	1422	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 FTS International
Address 1432 Route 519 City Eighty Four State PA Zip 15330

Please insert additional pages as applicable.

Completed by Brad Maddox Telephone (412) 395-7053
Signature  Title Completions Director Date 6/14/2018

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

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07/20/2018

WR-35
Rev. 8/23/13

Page ___ of ___

API 47- 017 - 06760 Farm name Haessly Land & Timber LLC Well number 513069

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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513069 47-017-06760-0000 - Additional Stimulating Company Information

Stimulating Company Universal Well Services

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

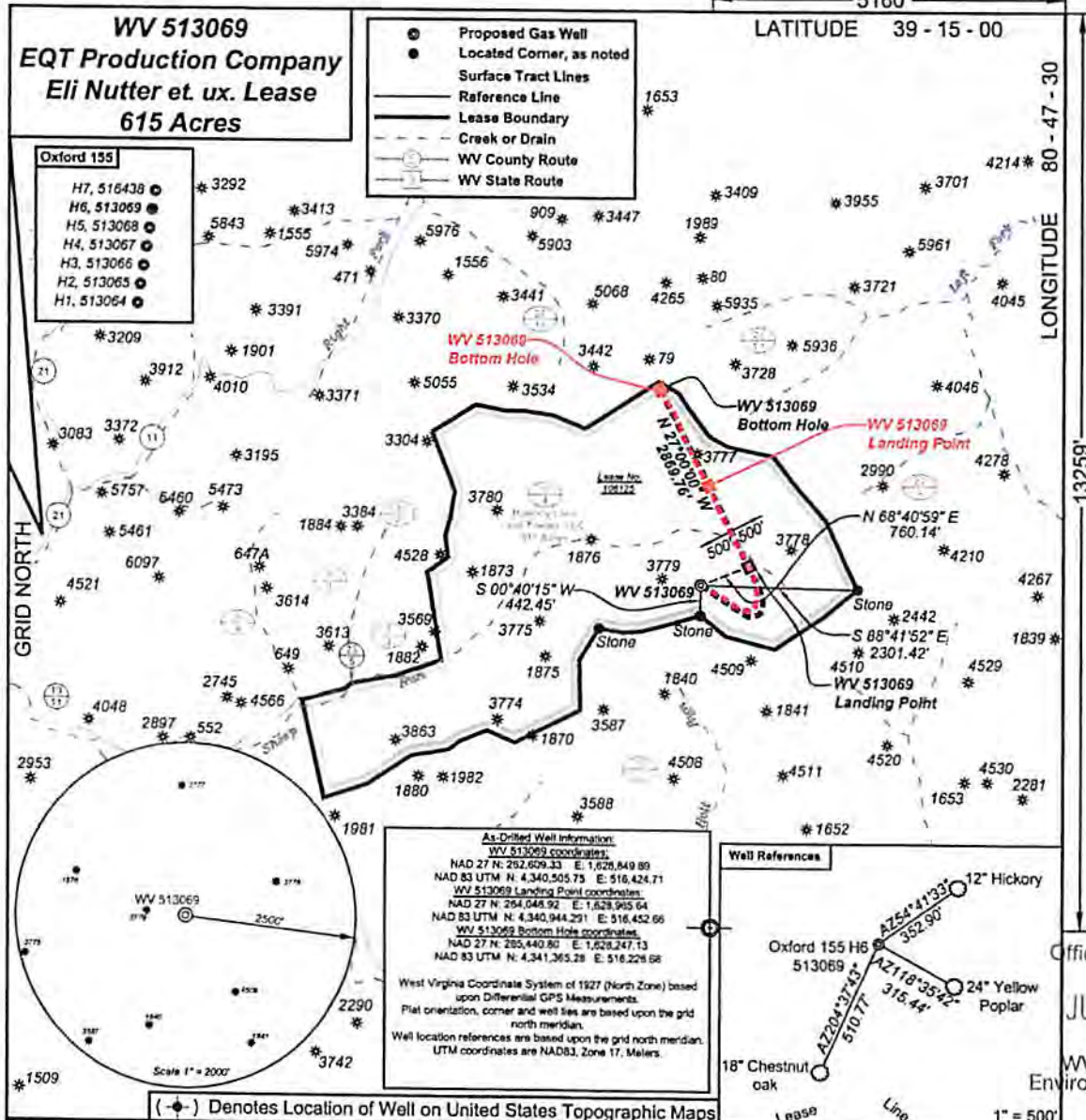
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Well # 513069 Final Formations API # 47-017-06760				WV Department of Environmental Protection
Formation Name	Drilling Top MD	Drilling Top (TVD)	Drilling Bottom MD	Drilling Btm (TVD)
SAND / SHALE	1	1	135	135
WASHINGTON COAL	135	135	137	137
SAND / SHALE	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	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	1,917.90
BIG LIME	1,918.00	1,917.90	2,051.00	2,050.90
SAND / SHALE	2,051.00	2,050.90	2,208.00	2,207.90
WEIR	2,208.00	2,207.90	2,323.00	2,322.90
SAND / SHALE	2,323.00	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
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	4,891.50
BENSON	4,892.00	4,891.50	5,007.00	5,003.30
SAND / SHALE	5,007.00	5,003.30	5,149.00	5,136.70
ALEXANDER	5,149.00	5,136.70	5,238.00	5,217.10
ELK	5,238.00	5,217.10	6,567.00	6,263.30
SONYEA	6,567.00	6,263.30	6,721.00	6,390.50
MIDDLESEX	6,721.00	6,390.50	6,793.00	6,442.10
GENESEE	6,793.00	6,442.10	6,956.00	6,537.00
GENESE0	6,956.00	6,537.00	7,078.00	6,593.60
TULLY	7,078.00	6,593.60	7,151.00	6,618.60
HAMILTON	7,151.00	6,618.60	7,189.00	6,631.00
MARCELLUS	7,189.00	6,631.00	10,195.00	6,685.00

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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. Singletary
 P.S. 2092



FILE NO: 239-13
 DRAWING NO: Oxford 155 H6
 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: August 21 20 17
 OPERATOR'S WELL NO. 513069
 API WELL NO
 47 - 017 -
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Original 1212.5 Proposed 1190 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

07/20/2018

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/31/2017
Job End Date:	3/21/2018
State:	West Virginia
County:	Doddridge
API Number:	47-017-06760-00-00
Operator Name:	EQT Production
Well Name and Number:	513069
Latitude:	39.21358800
Longitude:	-80.80991900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,631
Total Base Water Volume (gal):	6,005,286
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	Universal Well Service, FTS International	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	86.34625	None
MC MX 5-3886	Multi-Chem	Specialty Brine					
				Listed Below			

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Scale Hib-A21	Universal Well Service	Scale Inhibitor					
				Listed Below			
HVG-1	FTS International	Water Gelling Agent					
				Listed Below			
APB-1	FTS International	Oxidizing Agents, Polymerization Initiator					
				Listed Below			
MC MX 8-2544	Multi-Chem	Live Culture-Nitrate Reducing Bacteria					
				Listed Below			
Unislick ST-50	Universal Well Service	Friction Reducer					
				Listed Below			
Unihib-G	Universal Well Service	Acid Corrosion Inhibitor					
				Listed Below			
SFR-451	Clariant Corporation	Polymer					
				Listed Below			
FRW-1450	FTS International	Processing Aid For Industrial Applications					
				Listed Below			

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Hydrochloric Acid (15%)	Universal Well Service, FTS International	Acid					
				Listed Below			
MC MX 8-4543	Multi-Chem	Biotechnology					
				Listed Below			
Sand (Proppant)	Universal Well Service, FTS International	Proppant					
				Listed Below			
Other Chemical (s)	Listed Above	See Trade Name (s) List					
				Listed Below			
WGA-7-SLR	Universal Well Service	Gel					
				Listed Below			
CI-150	FTS International	Acid Corrosion Inhibitor					
				Listed Below			
CS-1000 SI	FTS International	Scale 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	13.22176	None
		Calcium Nitrate.4H2O	13477-34-4	100.00000	0.07536	
		Calcium Nitrate.4H2O	13477-34-4	100.00000	0.07536	None
		Hydrochloric Acid	7647-01-0	15.00000	0.03550	None

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			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.01359	None
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.01359	
			Distillates (Petroleum), Hydrotreated Light	64742-47-8	30.00000	0.01095	None
			Sodium Chloride	7647-14-5	100.00000	0.00517	
			Sodium Chloride	7647-14-5	100.00000	0.00517	None
			Ammonium Acetate	631-61-8	10.00000	0.00453	
			Ammonium Acetate	631-61-8	10.00000	0.00453	None
			Amine Triphosphate	Proprietary	30.00000	0.00387	
			Amine Triphosphate	Proprietary	30.00000	0.00387	None
			Phosphonic Acid {Nitrilotris (Methylene)} Tris	6419-19-8	35.00000	0.00384	None
			Distillates (Petroleum), Hydrotreated Light	64742-47-8	55.00000	0.00265	None
			Guar Gum	9000-30-0	55.00000	0.00265	None
			Guar Gum	9000-30-0	55.00000	0.00265	
			Distillates (Petroleum), Hydrotreated Light	64742-47-8	55.00000	0.00265	
			Alcohols, C12-16, Ethoxylated	68551-12-2	5.00000	0.00227	
			Alcohols, C12-14, Ethoxylated	68439-50-9	5.00000	0.00227	None
			Alcohols, C10-16, Ethoxylated	68002-97-1	5.00000	0.00227	
			Alcohols, C10-16, Ethoxylated	68002-97-1	5.00000	0.00227	None
			Alcohols, C12-14, Ethoxylated	68439-50-9	5.00000	0.00227	
			Alcohols, C12-16, Ethoxylated	68551-12-2	5.00000	0.00227	None
			Alcohols, C11-14-iso-, C13-Rich, Ethoxylated	78330-21-9	5.00000	0.00183	None
			Proprietary	Proprietary	100.00000	0.00112	
			Proprietary	Proprietary	100.00000	0.00112	None
			Ammonium Persulfate	7727-54-0	95.00000	0.00088	None

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			Ethylene Glycol	107-21-1	5.00000	0.00065	
			Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00065	None
			Ethylene Glycol	107-21-1	5.00000	0.00065	None
			Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00065	
			Phosphonic Acid ((Dimethylamino) Methylene) Bis-	29712-30-9	5.00000	0.00055	None
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.00043	
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.00043	None
			Petroleum Distillates	64742-47-8	55.00000	0.00030	
			Petroleum Distillates	64742-47-8	55.00000	0.00030	None
			Guar Gum	9000-30-0	50.00000	0.00027	None
			Sodium Nitrate	7631-99-4	5.00000	0.00026	None
			Sodium Nitrate	7631-99-4	5.00000	0.00026	
			Phosphorous Acid	10294-56-1	2.00000	0.00022	None
			Ammonium Acetate	631-61-8	13.00000	0.00018	None
			Ammonium Acetate	631-61-8	13.00000	0.00018	
			Butyl Diglycol	0000112-34-5	75.00000	0.00010	None
			Butyl Diglycol	0000112-34-5	75.00000	0.00010	
			Alcohols, Ethoxylated	68002-97-1	5.00000	0.00007	None
			Alcohols, Ethoxylated	68439-50-9	5.00000	0.00007	None
			Alcohols, Ethoxylated	68551-12-2	5.00000	0.00007	None
			Alcohols, Ethoxylated	68439-50-9	5.00000	0.00007	
			Alcohols, Ethoxylated	68002-97-1	5.00000	0.00007	
			Alcohols, Ethoxylated	68551-12-2	5.00000	0.00007	
			Alcohols, C10-16, Ethoxylated	0068002-97-1	50.00000	0.00006	None
			Alcohols, C10-16, Ethoxylated	0068002-97-1	50.00000	0.00006	
			Ethylene Glycol	107-21-1	30.00000	0.00004	None

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			Organic Amine Resin Salt	Proprietary	30.00000	0.00004	None
			Isopropanol	67-63-0	30.00000	0.00004	None
			Dimethylformamide	68-12-2	10.00000	0.00001	None
			Aromatic Aldehyde	Proprietary	10.00000	0.00001	None
			Quaternary Ammonium Compound	Proprietary	10.00000	0.00001	None
			Clay	14808-60-7	2.00000	0.00001	None
			Clay	14808-60-7	2.00000	0.00001	
			Surfactant	68439-51-0	2.00000	0.00001	None
			Surfactant	68439-51-0	2.00000	0.00001	
			Methanol	0000067-56-1	5.00000	0.00001	None
			Methanol	0000067-56-1	5.00000	0.00001	
			Thiourea	0000062-56-6	1.00000	0.00000	None
			Formaldehyde	0000050-00-0	1.00000	0.00000	None
			Thiourea	0000062-56-6	1.00000	0.00000	
			Formaldehyde	0000050-00-0	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)

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Reviewed

And G Jan

Well Operator's Report of Well Work

7/9/18



Where energy meets innovation.

Well Number: 513069

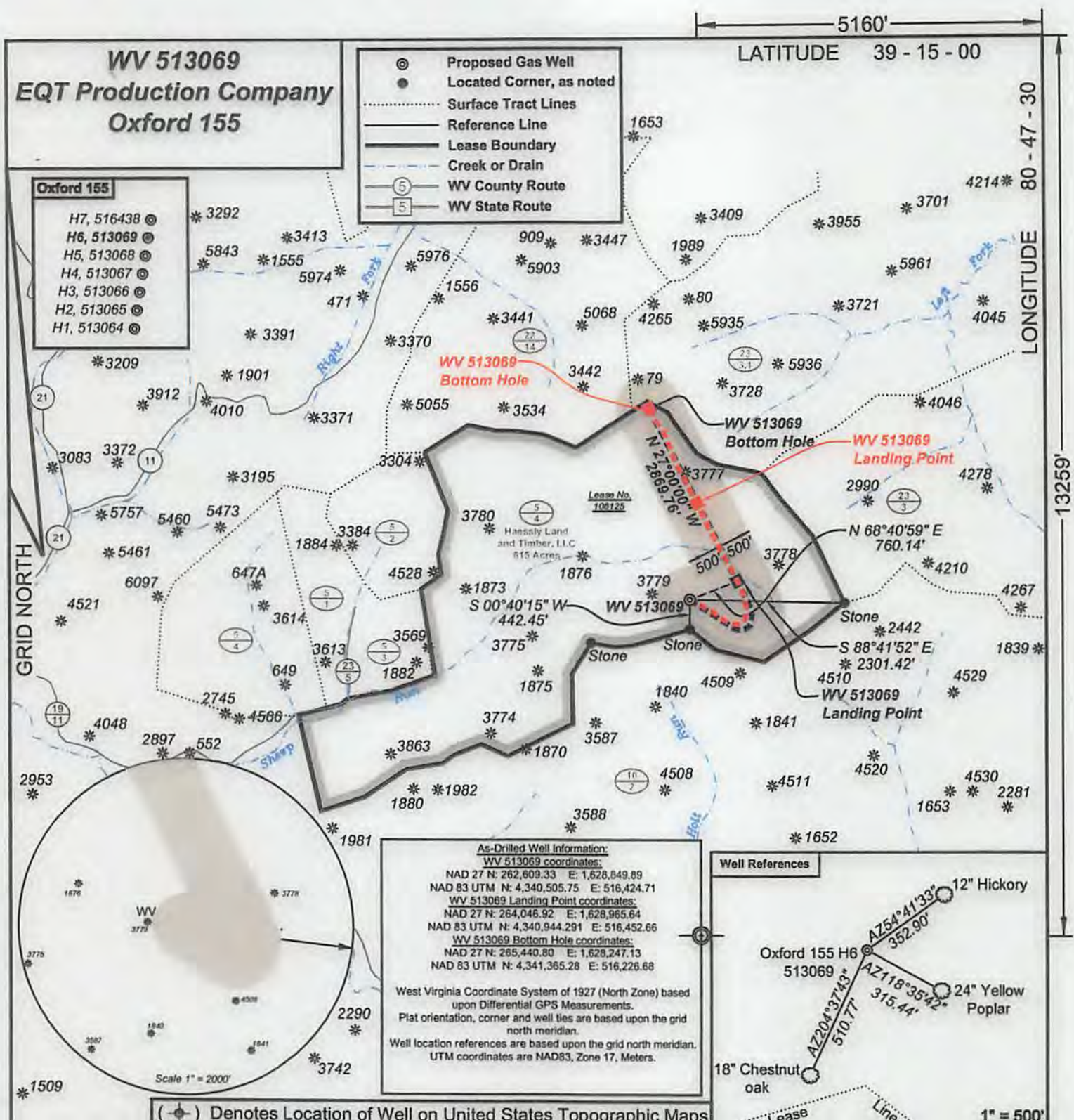
API: 47 - 017 - 06760

Submission: Initial Amended

Notes: Please note that Universal Well Service performed the initial stimulation services on this well (8/31/2017-9/7/2017). FTS International performed the remaining stimulation services (3/14/18-3/21/2018).

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Ben R. Singleton
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FILE NO: 239-13
 DRAWING NO: Oxford 155 H6
 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. 513069
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 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: Original 1212.5 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

07/20/2018