

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

API 47 - 103 - 02989 County WETZEL District GRANT
Quad BIG RUN Pad Name BIG176 Field/Pool Name _____
Farm name JOHN W. AND FLORENCE E. KILCOYNE Well Number 513831
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 4379092 Easting 537757
Landing Point of Curve Northing 4379313 Easting 538563
Bottom Hole Northing 4380647 Easting 537968

Elevation (ft) 860 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) (Intermediate Hole Only)

Water base Mud 12.5 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 05/30/2014 Date drilling commenced 06/30/2014 Date drilling ceased 11/25/2014
Date completion activities began 1/26/2015 Date completion activities ceased 3/3/2015
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 135 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1457,1459,1390,1521 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 109,174,239,495,602 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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W.S. W/S 06/05/2015
WV Department of MS/27/15 ✓
Environmental Protection

API 47- 103 - 02989 Farm name JOHN W. AND FLORENCE E. KILCOYNE Well number 513831

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	28"	26"	80'	NEW	A-500 40LB/FT	NONE	Y
Surface	24"	20"	289'	NEW	J-55 94LB/FT	NONE	Y
Coal							
Intermediate 1	17.5"	13.375"	830'	NEW	J-55 54.5LB/FT	205'	Y
Intermediate 2	12.375"	9.625"	2404'	NEW	A-500 40LB/FT	NONE	Y
Intermediate 3							
Production	8.5"	5.5"	13,228'	NEW	P-110 20LB/FT	NONE	N
Tubing							
Packer type and depth set							

Comment Details _____

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	98	15.6	1.18	115.64	0	8
Surface	CLASS A	545	15.6	1.19	648.55	0	8
Coal							
Intermediate 1	CLASS A	715	15.6	1.19	850.85	0	8
Intermediate 2	CLASS A / CLASS A	475 / 390	15.6 / 15.6	1.18 / 1.19	1124.6	0	8
Intermediate 3							
Production	CLASS A / CLASS H	955 / 645	14.2 / 15.2	1.26 / 1.97	2,473	3,500	72
Tubing							

Drillers TD (ft) 13,236' MD Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 3,490'

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- JOINTS: 1, 6
 INTERMEDIATE- JOINTS: 1, 12
 INTERMEDIATE 2- RAN AT LEAST EVERY 500' FEET JOINTS: 1,12,25,38,49
 PRODUCTION- 240 Composite bodied centralizers on every joint from TD up to 3,500'

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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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	7,024'	TVD 8,291' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3,488 psi Bottom Hole N/A psi DURATION OF TEST 59 hrs

OPEN FLOW Gas 8,972 mcfpd Oil 0 bpd NGL 0 bpd Water 889 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 ALPHA HUNTER DRILLING (RIG 5)
Address P.O. BOX 430 City RENO State OH Zip 45773

Logging Company HOSSCO SERVICES, LLC
Address 614 TROTTERS LANE City CHARLESTON State WV Zip 25312

Cementing Company NABORS CEMENTING SERVICES
Address 2504 SMITH CREEK ROAD City WAYNESBURG State PA Zip 15370

Stimulating Company KEANE
Address 2121 SAGE ROAD City HOUSTON State TX Zip 77056

Please insert additional pages as applicable.

Completed by Jim Helmick Telephone 412-395-5518
Signature  Title VP Completions Date 5/27/2015

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API 47- 103 - 02989 Farm name JOHN W. AND FLORENCE E. KILCOYNE Well number 513831

Drilling Contractor Savanna Drilling
Address 2204 Timberloch Place Suite City Woodlands State TX Zip 77380

Logging Company GyroData
Address 601 MAYER ST City BRIDGEVILLE State PA Zip 15017

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

Mud Type(s) and Additive(s) (Production Hole Only)

SBM 12.5 ppg powdered hydrocarbon resin, calcium carbonate, ground almond hulls, barium sulfate, calcium chloride, lecithin liquid, organophilic clay, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

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Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	0	0	138	138
SAND/SHALE	0	0	112	112
WAHINGTON COAL	112	112	114	114
SAND/SHALE	114	114	177	177
WAYNESBURG A COAL	177	177	178	178
SAND/SHALE	178	178	242	242
WAYNESBURG COAL	242	242	244	244
SAND/SHALE	244	244	498	498
SEWICKLY COAL	498	498	500	500
SAND/SHALE	500	500	605	605
PIITSBURGH COAL	605	605	611	611
SAND/SHALE	611	611	1,710	1,710
MAXTON	1,710	1,710	1,842	1,842
SAND/SHALE	1,842	1,842	1,866	1,866
BIG LIME	1,866	1,866	1,958	1,958
SAND/SHALE	1,958	1,958	1,967	1,967
BIG INJUN	1,967	1,967	2,125	2,125
SAND/SHALE	2,125	2,125	2,262	2,262
WEIR	2,262	2,262	2,361	2,361
SAND/SHALE	2,361	2,361	2,412	2,412
GANTZ	2,412	2,412	2,421	2,421
SAND/SHALE	2,421	2,421	2,462	2,462
50F	2,462	2,462	2,508	2,508
SAND/SHALE	2,508	2,508	2,555	2,555
30F	2,555	2,555	2,579	2,579
SAND/SHALE	2,579	2,579	2,680	2,679
GORDON	2,680	2,679	2,730	2,729
SAND/SHALE	2,730	2,729	3,463	3,462
FORTH SAND	2,772	2,771	2,784	2,783
SAND/SHALE	2,784	2,783	2,928	2,927
BAYARD	2,928	2,927	3,111	3,110
SAND/SHALE	3,111	3,110	3,309	3,308
WARREN	3,309	3,308	3,358	3,357
B-5	3,358	3,357	3,463	3,462
SPEECHLEY	3,463	3,462	3,887	3,870
BALLTOWN A	3,887	3,870	4,510	4,340
RILEY	4,510	4,340	5,360	4,986
BENSON	5,360	4,986	5,825	5,327
ALEXANDER	5,825	5,327	5,914	5,391
ELKS	5,914	5,391	7,411	6,492
SONYEA	7,411	6,492	7,732	6,733
MIDDLESEX	7,732	6,733	7,806	6,786
GENESEE	7,806	6,786	7,934	6,870
GENESEO	7,934	6,870	7,992	6,904
TULLY	7,992	6,904	8,036	6,928
HAMILTON	8,036	6,928	8,291	7,024
MARCELLUS	8,291	7,024	13,236	7,042

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513831 - 47-103-02989-0000- Stimulated Stages

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)
Initiation Sleeve	2/13/2015	12	7,728.00	8,866.00	5,062.00	0	748	0
1.02	2/13/2015	22	8,476.00	9,198.00	6,592.00	0	1537	0
1	2/23/2015	77.4	8,803.00	9,227.00	4,328.00	299,894	8450	0
2	2/24/2015	87.9	8,757.00	9,101.00	5,664.00	319,902	9285	0
3	2/24/2015	92.5	8,673.00	8,953.00	4,623.00	158,755	8071	0
4	2/24/2015	54	8,276.00	9,260.00	6,140.00	182,766	6385	0
4.02	2/25/2015	0	0.00	8,042.00	7,240.00	0	888	0
4.1	2/25/2015	84.9	8,683.00	9,241.00	6,044.00	225,133	5809	0
5	2/25/2015	93.3	8,649.00	9,066.00	6,015.00	304,941	8222	0
6	2/26/2015	92	8,740.00	9,967.00	5,743.00	278,677	8130	0
7	2/26/2015	97.3	8,662.00	8,863.00	5,271.00	299,581	7928	0
8	2/26/2015	95.7	8,609.00	8,981.00	5,450.00	255,576	7754	0
9	2/27/2015	95	8,726.00	9,255.00	5,793.00	301,991	7847	0
10	2/27/2015	95.3	8,828.00	9,072.00	4,902.00	300,528	7693	0
11	2/27/2015	95.3	8,668.00	9,047.00	5,617.00	299,913	9086	0
12	2/28/2015	95.6	8,719.00	9,027.00	6,492.00	299,700	7484	0
13	2/28/2015	96.4	8,877.00	9,088.00	5,613.00	305,400	7869	0
14	2/28/2015	97.2	8,672.00	9,015.00	5,807.00	299,650	8098	0
15	2/28/2015	92.1	8,799.00	9,107.00	5,962.00	283,050	9592	0
16	3/1/2015	100	8,389.00	8,812.00	5,640.00	301,240	7781	0
17	3/1/2015	93.70	8,730.00	8,962.00	5,769	298,951	8,803	0
18	3/2/2015	96.90	8,729.00	9,008.00	5,699	298,356	7,228	0
19	3/2/2015	98.40	8,587.00	8,998.00	6,386	299,807	7,705	0
20	3/2/2015	98.20	8,350.00	8,929.00	5,835	300,162	8,716	0
21	3/2/2015	99.30	8,270.00	8,943.00	5,825	276,628	7,384	0
22	3/3/2015	96.00	8,513.00	8,911.00	4,686	299,936	7,477	0

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513831 - 47-103-02989-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	1/26/2015	12,228.00	13,230.00	10	MARCELLUS
1	2/23/2015	13,021.00	13,158.00	32	MARCELLUS
2	2/24/2015	12,797.00	12,977.00	40	MARCELLUS
3	2/24/2015	12,572.00	12,754.00	40	MARCELLUS
4	2/24/2015	12,347.00	12,529.00	40	MARCELLUS
4.1	2/25/2015	12,342.00	12,412.00	24	MARCELLUS
5	2/25/2015	12,124.00	12,302.00	40	MARCELLUS
6	2/25/2015	11,897.00	12,080.00	40	MARCELLUS
7	2/26/2015	11,672.00	11,854.00	40	MARCELLUS
8	2/26/2015	11,447.00	11,629.00	40	MARCELLUS
9	2/27/2015	11,222.00	11,404.00	40	MARCELLUS
10	2/27/2015	10,997.00	11,179.00	40	MARCELLUS
11	2/27/2015	10,772.00	10,954.00	40	MARCELLUS
12	2/28/2015	10,547.00	10,729.00	40	MARCELLUS
13	2/28/2015	10,322.00	10,504.00	40	MARCELLUS
14	2/28/2015	10,097.00	10,279.00	40	MARCELLUS
15	2/28/2015	9,872.00	10,054.00	40	MARCELLUS
16	3/1/2015	9,647.00	9,829.00	40	MARCELLUS
17	3/1/2015	9,422.00	9,604.00	40	MARCELLUS
18	3/2/2015	9,200.00	9,379.00	40	MARCELLUS
19	3/2/2015	8,972.00	9,154.00	40	MARCELLUS
20	3/2/2015	8,747.00	8,929.00	40	MARCELLUS
21	3/2/2015	8,522.00	8,704.00	40	MARCELLUS
22	3/3/2015	8,297.00	8,479.00	40	MARCELLUS

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06/05/2015

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/26/2015
Job End Date:	3/3/2015
State:	West Virginia
County:	Wetzel
API Number:	47-103-02989-00-00
Operator Name:	EQT Production
Well Name and Number:	513831
Longitude:	-80.56056600
Latitude:	39.56060400
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,042
Total Base Water Volume (gal):	7,810,740
Total Base Non Water Volume:	0



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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	Keane Group	Carrier/Base Fluid	Water	7732-18-5	100.00000	90.57967	None
Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100.00000	9.01972	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05861	None
Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03025	None
SL 1072	Keane Group	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	25.00000	0.01874	None
EC6330A	Keane Group	Scale Inhibitor	Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00124	None
AI 600	Keane Group	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40.00000	0.00021	None
			N, N-Dimethylformamide	68-12-2	20.00000	0.00010	None
			2-Butoxyethanol	111-76-2	15.00000	0.00008	None
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	15.00000	0.00008	None

					104-55-2	15.00000	0.00000	None
					127087-87-0	5.00000	0.00003	None
					112-30-1	5.00000	0.00003	None
					78-40-0	2.50000	0.00001	None
					67-63-0	2.50000	0.00001	None
					111-87-5	2.50000	0.00001	None
LEB-10X	Keane Group	Gel Breaker			107-21-1	30.00000	0.00031	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 fresh water, produced water, and/or 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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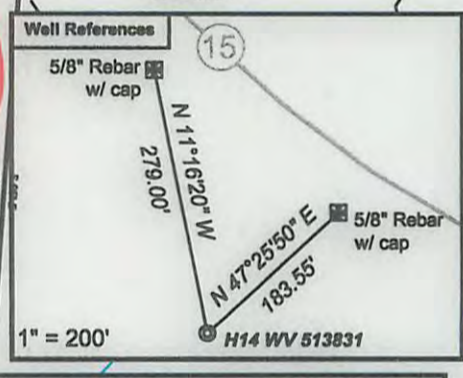
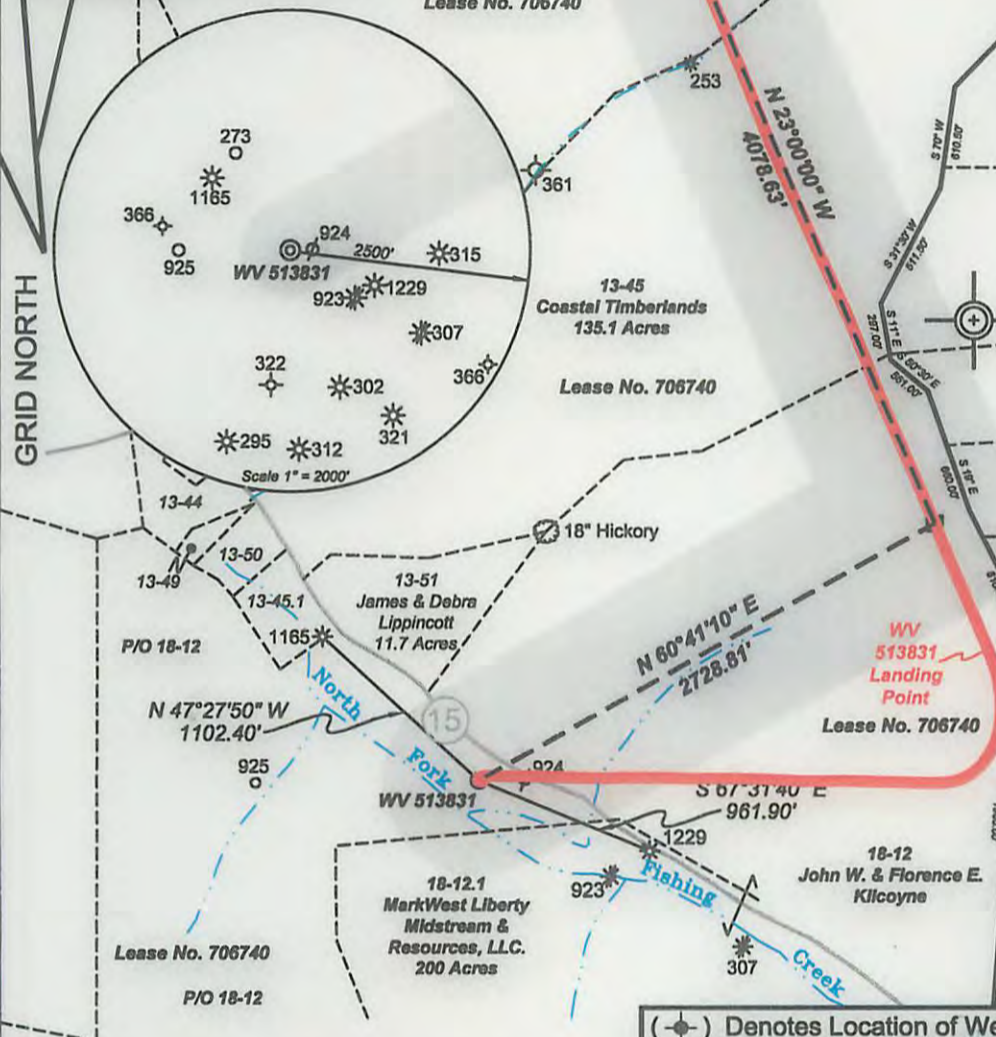
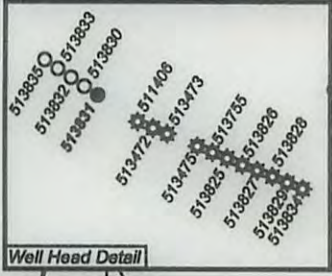
WV 513831
EQT Production Company
47-103-02989

- ⊙ Proposed Gas Well
- Located Corner, as noted
- - - Surface Tract Lines
- Lease Boundary

LATITUDE 39 - 35 - 00

As-Drilled Well Information
 WV 513831 coordinates are:
 Nad 83, North Zone, feet
 N: 388,097 E: 1,669,523
 Nad 83 UTM, Zone 17 meters
 UTM N: 4,379,092 E: 537,757
 WV 513831 Landing Point coordinates are:
 Nad 83, North Zone, feet
 N: 388,780 E: 1,672,180
 Nad 83 UTM, Zone 17 meters
 UTM N: 4,379,313 E: 538,563
 WV 513831 Bottom Hole coordinates are:
 Nad 83, North Zone, feet
 N: 393,188 E: 1,670,301
 Nad 83 UTM, Zone 17 meters
 UTM N: 4,380,647 E: 537,968

LONGITUDE 80 - 32 - 30

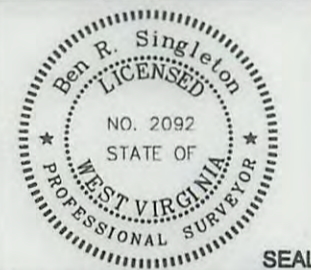


(⊙) Denotes Location of Well on United States Topographic Maps



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



SEAL

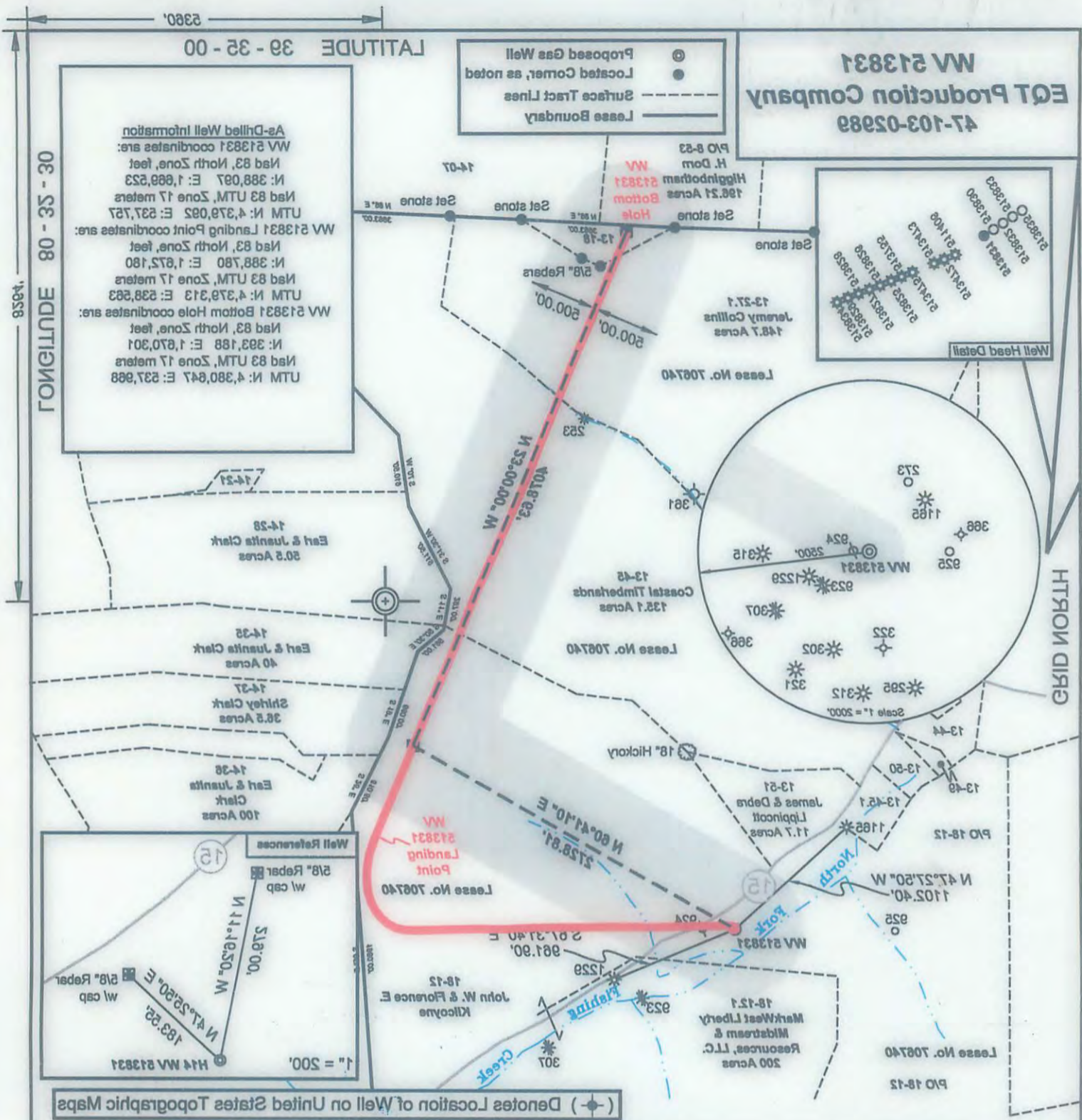
FILE NO: 145-34-G-10
 DRAWING NO: 145-10 Big 176 H14
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: December 17 20 14
 OPERATOR'S WELL NO. 513831
 API WELL NO
 47 - 103 - 02989
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-built 860' WATERSHED: North Fork of Fishing Creek QUADRANGLE: Big Run
 DISTRICT: Grant COUNTY: Wetzel
 SURFACE OWNER: John W. and Florence E. Kilcoyne ACREAGE: 1003.75
 ROYALTY OWNER: EQT Production Company, Inc. LEASE NO: 706740 ACREAGE: 1003.75
 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=7100', MD=14,500'

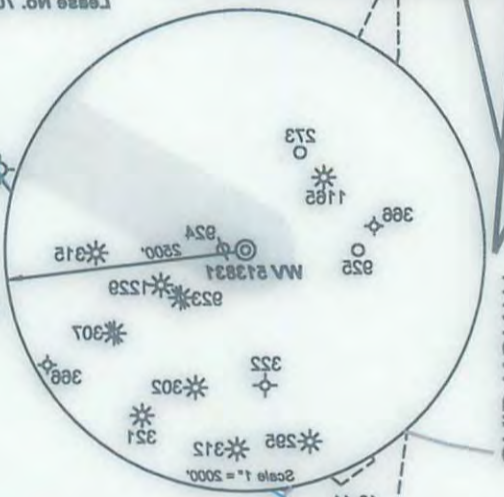
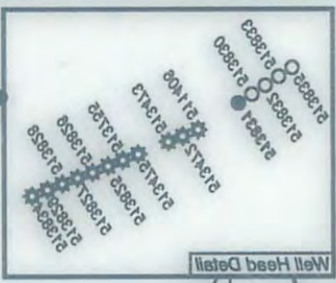
WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Rex C. Ray
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280
 Bridgeport, WV 26330 Bridgeport, WV 26330



EQT Production Company
 WV 513831
 47-103-0288

Proposed Gas Well
 Located Corner, as noted
 Surface Tract Lines
 Lease Boundary

As-Drilled Well Information
 WV 513831 coordinates are:
 Nad 83, North Zone, feet
 N: 388,087 E: 1,669,523
 Nad 83 UTM, Zone 17 meters
 UTM N: 4,370,982 E: 537,757
 UTM N: 4,370,982 E: 537,757
 Nad 83 UTM, Zone 17 meters
 N: 388,780 E: 1,672,180
 Nad 83, North Zone, feet
 UTM N: 4,370,313 E: 538,583
 UTM N: 4,370,313 E: 538,583
 Nad 83 UTM, Zone 17 meters
 N: 383,188 E: 1,670,301
 Nad 83, North Zone, feet
 UTM N: 4,380,847 E: 537,988



(*) 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.
 P.S. 2092



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION		FILE NO.: 145-34-G-10 DRAWING NO.: 145-10 Bld 178 H14 SCALE: 1" = 1000' MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION: NGS CORS Station
DATE: December 17 20 14 OPERATOR'S WELL NO.: 513831 API WELL NO.: 47 - 103 - 0288 STATE COUNTY PERMIT	WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW LOCATION: ELEVATION: As-built 860' WATERSHED North Fork of Fishing Creek QUADRANGLE: Big Run DISTRICT: Grant COUNTY: Wetzel ACREAGE: 377.08 ROYALTY OWNER: John W. and Florence E. Kilcovne LEASE NO.: 708740 ACREAGE: 1003.75 PROPOSED WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: MD=14500' TVD=1700'	WELL OPERATOR: EQT Production Company ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330 DESIGNATED AGENT: Rex C. Ray ADDRESS: 115 Professional Place PO Box 280 Bridgeport, WV 26330