

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

API 47-095-02511 County Tyler District Centerville
Quad West Union Pad Name WEU4 Field/Pool Name N/A
Farm name Donna J Peter Well Number WEU4H13 (516540)
Operator (as registered with the OOG) EQT Production Company
Address 625 LIBERTY AVENUE, 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 4,357,492.64 Easting 515,443.06
Landing Point of Curve Northing 4,357,642.78 Easting 516,346.11
Bottom Hole Northing 4,356,647.40 Easting 516,830.43

Elevation (ft) 1079' 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) 12.0 ppg Synthetic Base : Mud Barium Sulfate (Mil-Bar 410), Synthetic Base Oil (Next-Base), Calcium Chloride, Bentonite Clay (Carbo-Gel II), Polymerized Fatty Acid Emulsifier(Carbo-Tec and Next-Mul HT), Lime, Walnut Shells Cellulosic Material (Chek-Loss, LCM), Calcium Carbonate (Mil-Carb), Gilsonite (Ecco-Blok)

Date permit issued 8/3/2018 Date drilling commenced 9/7/2018 Date drilling ceased 1/5/2019
Date completion activities began 03/01/2019 Date completion activities ceased 03/05/2019
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

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Freshwater depth(s) ft 132, 175, 186, 204 Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1128, 1219, 1222 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 232, 285, 700 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

N WV Department of Environmental Protection

Reviewed by: JCB
6/24/2019
9/5/2019

API 47-095 - 02511 Farm name Donna J Peter Well number WEU4H13 (516540)

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"	53'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	751'	NEW	J-55 54.5#	159	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2877'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	12422'	NEW	P-110 20#	N/A	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	100	15.6	1.18	118	0	8+
Surface	CLASS A	740	16	1.13	836	0	22
Coal							
Intermediate 1	CLASS H	1085	16.4	1.07	1161	0	25
Intermediate 2							
Intermediate 3							
Production	CLASS A	1855	15.6	1.23	2282	4000	+72
Tubing							

Drillers TD (ft) 12,436 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) 5110 MD

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 joint and less than every 150' and within 100' from surface.

INTERMEDIATE: On shoe joint and less than every 150' and within 100' from surface.

PRODUCTION: 210 Composite bodied centralizers on every joint from TD up to 4057' MD

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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 _____

API 47- 095 - 02511

Farm name Donna J Peter

Well number WEU4H13 (516540)

PERFORATION RECORD

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

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 Attachment

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Please insert additional pages as applicable.

516540 47-095-02511-00-00 Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
1 (Toe Sub)	2/22/2019	12,350	12,352	0	MARCELLUS
2	3/1/2019	12,146	12,327	40	MARCELLUS
3	3/2/2019	11,946	12,127	40	MARCELLUS
4	3/2/2019	11,746	11,927	40	MARCELLUS
5	3/2/2019	11,546	11,727	40	MARCELLUS
6	3/2/2019	11,346	11,527	40	MARCELLUS
7	3/2/2019	11,146	11,327	40	MARCELLUS
8	3/2/2019	10,946	11,127	40	MARCELLUS
9	3/3/2019	10,746	10,927	40	MARCELLUS
10	3/3/2019	10,546	10,727	40	MARCELLUS
11	3/3/2019	10,346	10,527	40	MARCELLUS
12	3/3/2019	10,146	10,327	40	MARCELLUS
13	3/3/2019	9,946	10,127	40	MARCELLUS
14	3/3/2019	9,746	9,927	40	MARCELLUS
15	3/4/2019	9,546	9,727	40	MARCELLUS
16	3/4/2019	9,346	9,527	40	MARCELLUS
17	3/5/2019	9,146	9,327	40	MARCELLUS
Kill Plug	3/5/2019	9,042	9,044	0	MARCELLUS

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516540 47-095-02511-00-00 - 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)
1	3/1/2019	87.69	8,760	9,602	3,784	210,020	5,113	0
2	3/1/2019	100.95	8,459	8,830	4,255	525,640	9,000	0
3	3/2/2019	101.06	8,486	8,964	4,070	525,550	8,930	0
4	3/2/2019	100.4	8,412	8,766	4,357	525,040	8,687	0
5	3/2/2019	100.1	8,220	8,473	4,014	525,080	8,627	0
6	3/2/2019	100.8	8,338	9,010	4,088	525,050	8,599	0
7	3/2/2019	101.74	8,726	9,339	3,836	525,780	8,624	0
8	3/3/2019	100.09	8,609	9,277	4,018	525,620	8,705	0
9	3/3/2019	99.1	8,437	9,496	3,901	525,940	8,564	0
10	3/3/2019	99.8	8,141	9,557	4,107	525,060	8,544	0
11	3/3/2019	100.4	8,394	9,144	4,005	525,460	8,490	0
12	3/3/2019	98.9	8,538	9,570	4,470	525,060	8,432	0
13	3/3/2019	99.6	8,001	8,710	5,047	525,700	8,628	0
14	3/4/2019	98.7	8,154	8,833	3,849	525,580	8,560	0
15	3/4/2019	101.21	8,324	8,844	4,137	525,140	8,749	0
16	3/5/2019	97.2	8,542	8,991	3,844	525,760	8,443	0
17	3/5/2019	101.34	7,767	8,751	3,898	525,480	8,677	0

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PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	6,609'	TVD	8,483 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,449 psi Bottom Hole N/A psi DURATION OF TEST 146.5 hrs

OPEN FLOW Gas 5,121 mcfpd Oil N/A bpd NGL 25.4 bpd Water 392.4 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.

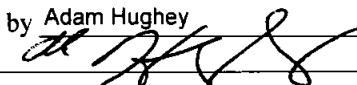
Drilling Contractor Precision Drilling
Address 10350 Richmond Avenue Suite 700 City Houston State TX Zip 77042

Logging Company Baker Hughes
Address 400 Technology Drive - Suite 120 City Canonsburg State PA Zip 15317

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

Stimulating Company ProFrac
Address 777 Main Street, Suite 3900 City Ft. Worth State TX Zip 76102

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone (412) 553-5884
Signature  Title Director - Completions Date 05/31/2019
WV Department of Environmental Protection

API 47- 095 - 02511 Farm name Donna J Peter Well number WEU4H13 (516540)

Drilling Contractor Falcon Drilling Company LLC
Address P.1120 Rt 119 Hwy North City Indiana State PA Zip 15701

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

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

Cementing Company Universal
Address 13549 S. Mosiertown Rd City Meadville State PA Zip 16335

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API 47-095-02511

Formation Name	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm (TVD) (ftKB)
SAND/SHALE	0	235	0	235
COAL	235	237	235	237
SAND/SHALE	237	286	237	286
COAL	286	290	286	290
SAND/SHALE	290	701	290	701
COAL	701	705	701	705
SAND/SHALE	705	1843	705	1842
MAXTON	1843	2042	1842	2038
SAND/SHALE	2042	2116	2038	2112
BIG LIME	2116	2400	2112	2394
SAND/SHALE	2400	2408	2394	2402
WEIR	2408	2455	2402	2448
SAND/SHALE	2455	2495	2448	2488
GANTZ	2495	2512	2488	2505
SAND/SHALE	2512	2609	2505	2602
FIFTY FOOT	2609	2664	2602	2657
SAND/SHALE	2664	2695	2657	2688
THIRTY FOOT	2695	2749	2688	2742
SAND/SHALE	2749	2775	2742	2768
GORDON	2775	2820	2768	2813
SAND/SHALE	2820	2846	2813	2839
FORTH SAND	2846	2908	2839	2901
SAND/SHALE	2908	2959	2901	2952
FIFTH SAND	2959	2972	2952	2965
SAND/SHALE	2972	3016	2965	3009
BAYARD	3016	3153	3009	3146
SAND/SHALE	3153	3379	3146	3372
WARREN	3379	3445	3372	3438
SAND/SHALE	3445	3465	3438	3458
SPEECHLEY	3465	3579	3458	3572
SAND/SHALE	3579	3981	3572	3974
BALLTOWN A	3981	4093	3974	4086
SAND/SHALE	4093	4579	4086	4572
RILEY	4579	4869	4572	4862
SAND/SHALE	4869	5000	4862	4993
BENSON	5000	5063	4993	5055
SAND/SHALE	5063	5247	5055	5239
ALEXANDER	5247	5329	5239	5318
ELKS	5329	7404	5318	6281
SONYEA	7404	7811	6281	6417
MIDDLESEX	7811	7945	6417	6462
GENESEE	7945	8208	6462	6541
GENESEO	8208	8307	6541	6569
TULLY	8307	8404	6569	6593
HAMILTON	8404	8483	6593	6609
MARCELLUS	8483	12436	6609	6646

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Hydraulic Fracturing DISCLOSURE

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BY STATE](#)


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PARTNERS](#)

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/1/2019
Job End Date:	3/5/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02511-00-00
Operator Name:	EQT Production
Well Name and Number:	516540
Latitude:	39.36667600
Longitude:	-80.82090000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,609
Total Base Water Volume (gal):	6,021,624
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
Sand (Proppant)	ProFrac	Proppant					
				Listed Below			
StimStream FR 9800	Chemstream	Friction Reducer					
				Listed Below			

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Clearal 268	Chemstream	Bacteria Treatment					
				Listed Below			
Water	ProFrac	Carrier/Base Fluid					
				Listed Below			
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
				Listed Below			
StimStream SC-398	Chemstream	Scale Inhibitor					
				Listed Below			
Hydrochloric Acid (15%)	ProFrac	Acidizing					
				Listed Below			

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

			Water	7732-18-5	100.00000	85.23223	None
			Silica Substrate	14808-60-7	100.00000	14.61564	None
			Copolymer Of 2-Propenamide	Proprietary	30.00000	0.01498	None
			Copolymer Of 2-Propenamide	Proprietary	30.00000	0.01498	
			Non-Hazardous Substances	Proprietary	90.00000	0.01250	None
			Hydrochloric Acid	7647-01-0	15.00000	0.01185	None
			Petroleum Dilstillate	64742-47-8	20.00000	0.00999	None
			Petroleum Dilstillate	64742-47-8	20.00000	0.00999	
			Non-Hazardous Substances	Proprietary	90.00000	0.00822	
			Non-Hazardous Substances	Proprietary	90.00000	0.00822	None

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			Glutaraldehyde	111-30-8	20.00000	0.00278	None
			Alcohols, C12-16, Ethoxylated	68551-12-2	2.00000	0.00100	
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00100	None
			Alcohols, C12-16, Ethoxylated	68551-12-2	2.00000	0.00100	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00100	
			Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00091	None
			Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00091	
			Ammonium Chloride ((NH4)Cl)	12125-02-9	1.00000	0.00050	
			Ammonium Chloride ((NH4)Cl)	12125-02-9	1.00000	0.00050	None
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	3.00000	0.00042	None
			Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	3.00000	0.00042	None
			Methanol	67-56-1	90.00000	0.00014	
			Methanol	67-56-1	90.00000	0.00014	None
			Alcohols, C7-9-ISO, C8- Rich	68526-83-0	5.00000	0.00001	None
			Isopropanol	67-63-0	5.00000	0.00001	
			Xylene	1330-20-7	5.00000	0.00001	None
			Alcohols, C7-9-ISO, C8- Rich	68526-83-0	5.00000	0.00001	
			Xylene	1330-20-7	5.00000	0.00001	
			Isopropanol	67-63-0	5.00000	0.00001	None
			Propargyl Alcohol	107-19-7	5.00000	0.00001	None
			Propargyl Alcohol	107-19-7	5.00000	0.00001	
			Imidazoline	61790-69-0	5.00000	0.00001	None

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			Imidazoline	61790-69-0	5.00000	0.00001	
			Ethylbenzene	100-41-4	1.00000	0.00000	None
			Ethylbenzene	100-41-4	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)

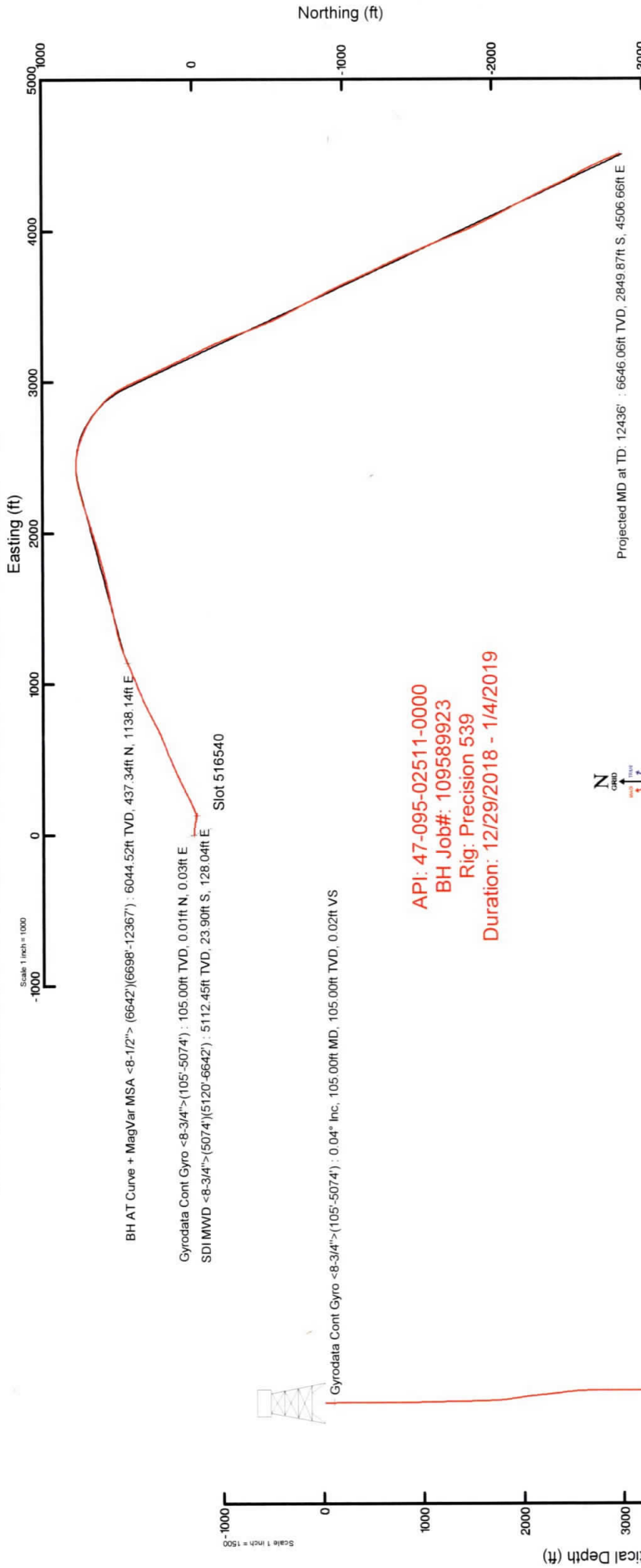
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Location: Tyler County, WV
Field: Tyler
Facility: WEU4 Pad

Slot: Slot 516540
Well: WEU4 516540
Wellbore: WEU4 516540 PWB



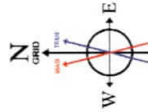
BH AT Curve + MagVar MSA $\langle 8-3/4^\circ \rangle$ (6642')(6698'-12367') : 6044.52ft TVD, 437.34ft N, 1138.14ft E

Gyrodata Cont Gyro $\langle 8-3/4^\circ \rangle$ (105'-5074') : 105.00ft TVD, 0.01ft N, 0.03ft E

SDI MWD $\langle 8-3/4^\circ \rangle$ (5074')(5120'-6642') : 5112.45ft TVD, 23.90ft S, 128.04ft E

Gyrodata Cont Gyro $\langle 8-3/4^\circ \rangle$ (105'-5074') : 0.04" Inc, 105.00ft MD, 105.00ft TVD, 0.02ft VS

API: 47-095-02511-0000
BH Job#: 109589923
Rig: Precision 539
Duration: 12/29/2018 - 1/4/2019



User specified Dip: 66.50° Field: 51780 nT
Magnetic North is 7.29 degrees West of True North (at 12/27/2018)
Grid North is 0.84 degrees West of True North
To correct azimuth from Magnetic to Grid subtract 6.45 degrees

SDI MWD $\langle 8-3/4^\circ \rangle$ (5074')(5120'-6642') : 0.48" Inc, 5120.00ft MD, 5112.45ft TVD, 120.87ft VS

BH AT Curve + MagVar MSA $\langle 8-1/2^\circ \rangle$ (6642')(6698'-12367') : 70.02" Inc, 6698.00ft MD, 6044.52ft TVD, 725.60ft VS

Projected MD at TD: 12436' : 89.51" Inc, 12436.00ft MD, 6646.06ft TVD, 5332.13ft VS

Vertical Section (ft)

Scale 1 inch = 1500

Projected MD at TD: 12436' : 89.51" Inc, 12436.00ft MD, 6646.06ft TVD, 5332.13ft VS

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Well Profile Data	
Design Comment	MD (ft) Inc (") Az (°) TVD (ft) Local N (ft) VS (ft)
Tit On	6642.00 69.450 66.580 8025.13 416.77 1089.80 3.46 695.85
PTB	6717.00 69.450 66.580 8051.45 444.23 1154.44 0.00 735.65
Hold	6813.88 70.458 75.161 8084.71 473.70 1240.44 8.00 792.40
KOP	7996.25 70.458 75.161 6480.21 759.06 2317.55 0.00 1548.07
LP	8800.21 89.900 155.000 6643.00 437.12 2963.20 10.00 2265.64
BHL	12442.39 89.900 155.000 6648.36 -2863.82 4502.44 0.00 5336.05

Location Information	
Facility Name	WEU4 Pad
Grid East (US ft)	162642.510
Grid North (US ft)	316448.200
Local E (ft)	416.77
Local N (ft)	16.19
Latitude	39° 27' 00.0337N
Longitude	-107° 00' 00.0000W
Mean Sea Level to Ground level (At Slot: Slot 516540)	16ft
Mean Sea Level to Ground level (At Slot: Slot 516540)	-107ft
Precision 539 (RFB) to Mean Sea Level	109ft

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Well Number: WEU4H13 (516540)

API: 47 - 095 - 02511

Submission: Initial Amended

Notes:

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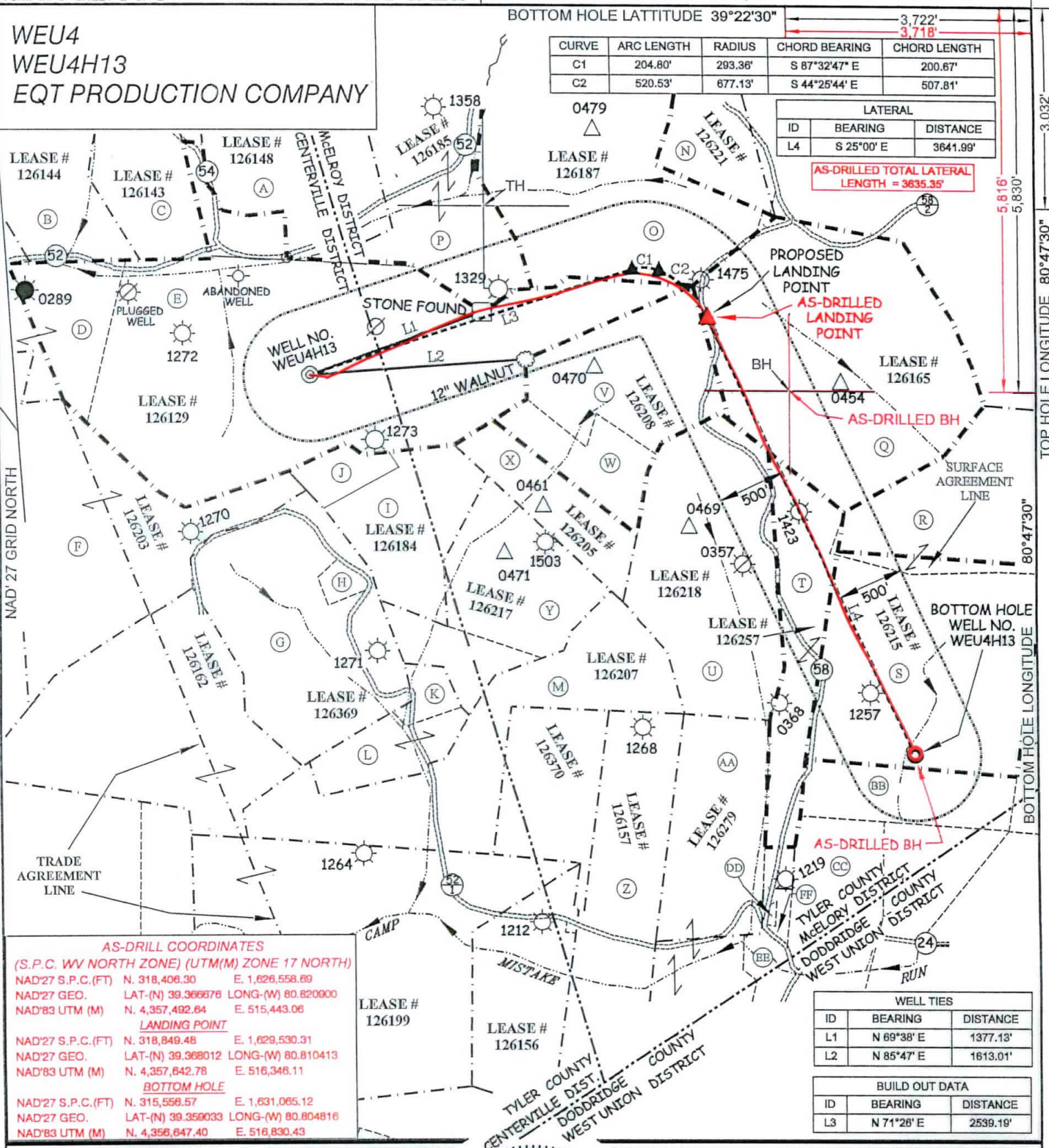
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**WEU4
WEU4H13
EQT PRODUCTION COMPANY**

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	204.80'	293.36'	S 87°32'47" E	200.67'
C2	520.53'	677.13'	S 44°25'44" E	507.81'

LATERAL		
ID	BEARING	DISTANCE
L4	S 25°00' E	3641.99'

AS-DRILLED TOTAL LATERAL LENGTH = 3635.35'

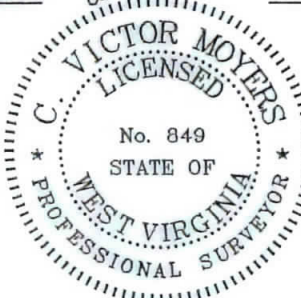


**AS-DRILL COORDINATES
(S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)**

NAD'27 S.P.C.(FT)	N. 318,406.30	E. 1,626,558.69
NAD'27 GEO.	LAT-(N) 39.366676	LONG-(W) 80.820900
NAD'83 UTM (M)	N. 4,357,492.64	E. 515,443.06
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 318,849.48	E. 1,629,530.31
NAD'27 GEO.	LAT-(N) 39.368012	LONG-(W) 80.810413
NAD'83 UTM (M)	N. 4,357,642.78	E. 516,346.11
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 315,556.57	E. 1,631,065.12
NAD'27 GEO.	LAT-(N) 39.359033	LONG-(W) 80.804816
NAD'83 UTM (M)	N. 4,356,647.40	E. 516,830.43

WELL TIES		
ID	BEARING	DISTANCE
L1	N 69°38' E	1377.13'
L2	N 85°47' E	1613.01'

BUILD OUT DATA		
ID	BEARING	DISTANCE
L3	N 71°26' E	2539.19'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

SCALE **1" = 1000'**
 DATE MAY 29 , 20 19
 REVISED
 OPERATORS WELL NO. WEU4H13
 API WELL NO. **47 - 95 - 02511**
 STATE COUNTY PERMIT

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 *C. Victor Moyers*

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



(S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 318,406.30	E. 1,626,558.69
NAD'27 GEO.	LAT-(N) 39.366676	LONG-(W) 80.820900
NAD'83 UTM (M)	N. 4,357,492.64	E. 515,443.06
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 318,849.48	E. 1,629,521.74
NAD'27 GEO.	LAT-(N) 39.367995	LONG-(W) 80.810443
NAD'83 UTM (M)	N. 4,357,640.89	E. 516,343.53
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 315,542.63	E. 1,631,060.90
NAD'27 GEO.	LAT-(N) 39.358995	LONG-(W) 80.804830
NAD'83 UTM (M)	N. 4,356,643.14	E. 516,829.22

LEGEND

COUNTY ROUTE	⊖	LEASE LINE	-----
PROPOSED WELL	⊕	SURFACE LINE	- - - - -
EXISTING WELL	⊗	WELL LATERAL	—————
PERMITTED WELL	⊙	AS-DRILLED WELL LATERAL	—————
DRILL PATH BEND POINT	▲	OFFSET LINE	—————
PLUGGED WELL	⊘	TIE LINE	—————
STORAGE WELL	△	CREEK	~~~~~
CENTERVILLE DISTRICT TAX MAP-PARCEL	C-00-00	ROAD	—————
McELROY DISTRICT TAX MAP-PARCEL	M-00-00	FENCE LINE	x x x

WELL OPERATOR **EQT PRODUCTION COMPANY**
 ADDRESS **2400 ANSYS DRIVE, SUITE 200
 CANONSBURG, PA 15317**

DESIGNATED AGENT **JASON RANSON**
 ADDRESS **115 PROFESSIONAL PLACE P.O. BOX 280
 BRIDGEPORT, WV 26330**

**WEU4
WEU4H13
EQT PRODUCTION COMPANY**

(S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 318,406.30	E. 1,626,558.69
NAD'27 GEO.	LAT-(N) 39.366676	LONG-(W) 80.820900
NAD'83 UTM (M)	N. 4,357,492.64	E. 515,443.06

LANDING POINT

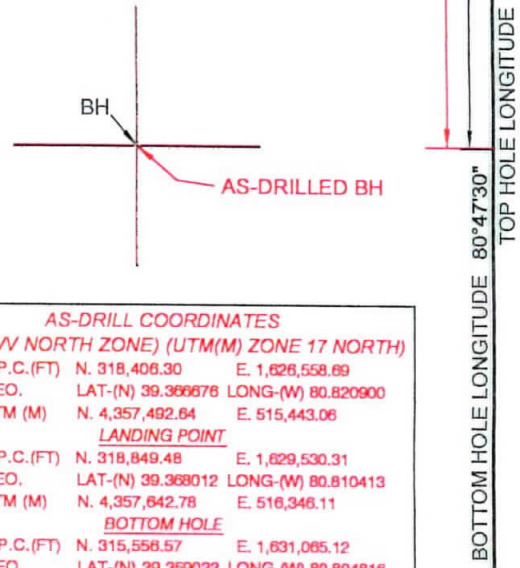
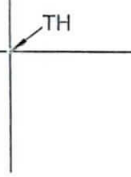
NAD'27 S.P.C.(FT)	N. 318,843.40	E. 1,629,521.74
NAD'27 GEO.	LAT-(N) 39.367995	LONG-(W) 80.810443
NAD'83 UTM (M)	N. 4,357,640.89	E. 516,343.53

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 315,542.63	E. 1,631,060.80
NAD'27 GEO.	LAT-(N) 39.358995	LONG-(W) 80.804830
NAD'83 UTM (M)	N. 4,356,643.14	E. 516,829.22

SURFACE OWNERSHIP

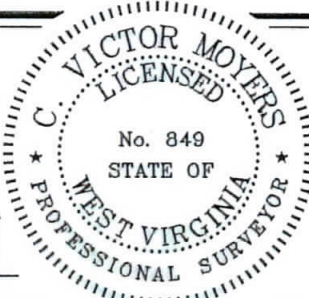
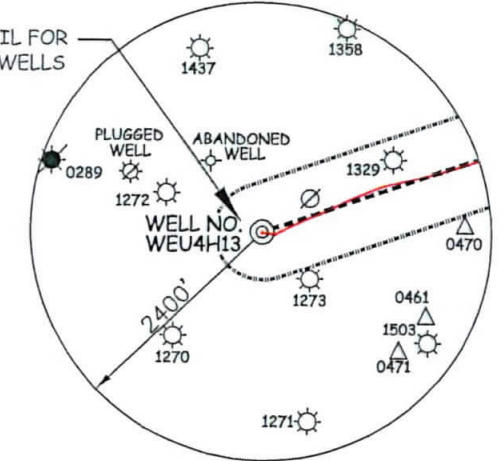
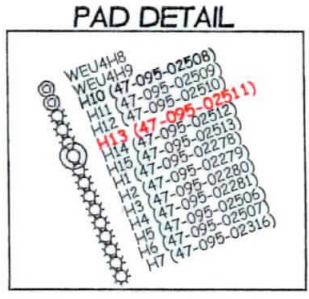
TAG	SURFACE OWNER	ACRES	T.M. - PAR.
TYLER COUNTY			
A	CHASE & REBA J. BARTRUG	109.94 ACRES±	TM-C-16-10
B	CONRAD COSTILOW	46.17 ACRES±	TM-C-16-14
C	JEFFERY E. & ANITA L. HOOVER	24.84 ACRES±	TM-C-16-16
D	RICHARD H. METCALF	61.57 ACRES±	TM-C-16-17
E	DONNA J. PETER	113.4 ACRES±	TM-C-16-22
F	CHRIS BAUM ET AL	56.84 ACRES±	TM-C-16-23
G	LEONA W. LORKOVICH ET AL	45.89 ACRES±	TM-C-16-24
H	STONEWALL GAS COMPANY	2 ACRES±	TM-C-16-24.2
I	PAUL WEEKLEY (LIFE)	18 ACRES±	TM-C-16-27
J	PAUL WEEKLEY (LIFE)	5 ACRES±	TM-C-16-28
K	PAUL WEEKLEY (LIFE)	3.37 ACRES±	TM-C-16-29
L	KENDRA WYKE ET AL	9.5 ACRES±	TM-C-18-02
M	ANZANETTA DRAIN HRS	46.88 ACRES±	TM-C-18-03
N	GARY DAVENPORT	16 ACRES±	TM-M-21-25
O	BRUCE & SANDRA STONEKING	69.44 ACRES±	TM-M-21-28
P	BRUCE & SANDRA STONEKING	42.86 ACRES±	TM-M-21-29
Q	ASIA DELL CUMBERLEDGE	75.75 ACRES±	TM-M-21-32
R	BRUCE W. BOLAND	35.43 ACRES±	TM-M-21-34
S	GORDON L. KEYS ET AL	60.6 ACRES±	TM-M-21-35
T	THOMAS E. & RICHARD S. MARTIN	28.99 ACRES±	TM-M-21-36
U	CLAY M. PERKINS ET AL	50.25 ACRES±	TM-M-21-37
V	EDWARD II & CAROLYN A. WHITE	40 ACRES±	TM-M-21-38
W	EDWARD II & CAROLYN A. WHITE	12.5 ACRES±	TM-M-21-39
X	EDWARD II & CAROLYN A. WHITE	16 ACRES±	TM-M-21-40
Y	BRYAN W. PRATT	23 ACRES±	TM-M-21-41
Z	RICHARD & LISA HENDRICKSON	44.68 ACRES±	TM-M-23-02
AA	JAMES T. & KATHRYN L. McNULTY	50.18 ACRES±	TM-M-23-3.1
BB	MYRON B. & BETTY WHITE	15.15 ACRES±	TM-M-23-07
DODDRIDGE COUNTY			
CC	MYRON B. & BETTY L. WHITE	14.88 ACRES±	TM-WU-01-01
DD	KENDRA K. (COTTRILL) WYKE	0.5 ACRES±	TM-WU-01-08
EE	JUDITH ANN BAGLEY	10.09 ACRES±	TM-WU-01-10
FF	JASON E. & JENNIFER L. BAGLEY	1.42 ACRES±	TM-WU-01-10.1



ROYALTY OWNERS

JERRY RAY BROWN	76 AC.±	LEASE NO. 126187
ROXIE DAVIS ET AL	53 AC.±	LEASE NO. 126208
HESTER BRITTON ET AL	76 AC.±	LEASE NO. 126165
THOMAS E. & RICHARD S. MARTIN	28 AC.±	LEASE NO. 126257
FRANKLIN BUTLER ET AL	76 AC.±	LEASE NO. 126215

- NOTES ON SURVEY**
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS 2500 SQ. FT. OR GREATER WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
 - WELL SPOT CIRCLE (SHEET 1) AND TOPO MARK SCALE ARE 1" = 2000'.
 - AS DRILLED INFORMATION PROVIDED BY EQT.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 29, 20 19
REVISED _____
OPERATORS WELL NO. WEU4H13
API WELL NO. 47 - 95 - 02511
STATE COUNTY PERMIT

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 849 C. Victor Moyers

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7701PWEU4H13AD.dwg (516540)

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION:
PAD ELEVATION 1,079' WATERSHED TRIBUTARY OF CAMP MISTAKE RUN
DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'
SURFACE OWNER DONNA J. PETER ACREAGE 113.40±
ROYALTY OWNER WACO OIL AND GAS INC. ET AL ACREAGE 152±
LEASE NO. 126129

PROPOSED WORK:
DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH 6,680'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JASON RANSON
ADDRESS 2400 ANSYS DRIVE, SUITE 200 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
CANONSBURG, PA 15317 BRIDGEPORT, WV 26330

COUNTY NAME
PERMIT