

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

API 47-095 - 02512 County Tyler District Centerville
Quad West Union Pad Name WEU4 Field/Pool Name N/A
Farm name Donna J Peter Well Number WEU4H14 (516600)
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 4,357,488.40 Easting 515,444.77
Landing Point of Curve Northing 4,357,818.05 Easting 516,358.99
Bottom Hole Northing 4,359,996.97 Easting 515,224.15

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 9/18/2018 Date drilling ceased 1/12/19
Date completion activities began 2/17/2019 Date completion activities ceased 03/01/2019
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A
Office of Oil and Gas

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug MAY 30 2019

Freshwater depth(s) ft 132, 175, 186, 204 Open mine(s) (Y/N) depths WV Department of Environmental Protection
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

Reviewed by:  6/24/2019
Reviewed

API 47-095 - 02512 Farm name Donna J Peter Well number WEU4H14 (516600)

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"	756'	NEW	J-55 54.5#	214	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2866'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	16225'	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	19
Coal							
Intermediate 1	CLASS H	1085	16.4	1.07	1161	0	20.6
Intermediate 2							
Intermediate 3							
Production	CLASS A	2525	15.6	1.23	3106	4000	+72
Tubing							

Drillers TD (ft) 16,230' 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) 2935 MD

Check all wireline logs run

- caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall 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: 322 Composite bodied centralizers on every joint from TD up to 2531 MD

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- 095 - 02512 Farm name Donna J Peter Well number WEU4H14 (516600)

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

516600 47-095-02512-00-00 - 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	2/17/2019	95.3	8,795	9,248	3,521	240,660	6,261	0
2	2/17/2019	100.0	8,756	9,229	4,217	400,080	7,469	0
3	2/17/2019	99.8	8,748	9,052	4,423	400,500	7,448	0
4	2/18/2019	96.6	8,787	9,466	4,250	400,960	7,488	0
5	2/18/2019	99.8	8,785	9,132	4,093	400,020	7,377	0
6	2/18/2019	99.9	8,935	9,271	4,351	400,080	7,293	0
7	2/18/2019	100.1	8,984	9,306	4,333	400,360	7,196	0
8	2/18/2019	99.6	8,865	9,433	4,193	400,900	7,556	0
9	2/19/2019	99.1	8,931	9,475	3,928	400,440	7,394	0
10	2/19/2019	99.7	8,906	9,287	4,044	400,660	7,177	0
11	2/19/2019	100.2	8,734	9,046	4,374	400,100	7,064	0
12	2/19/2019	100.1	8,754	9,196	4,257	400,340	6,751	0
13	2/19/2019	99.2	8,943	9,438	4,268	400,360	7,189	0
14	2/20/2019	100.1	8,817	9,069	4,405	400,960	7,057	0
15	2/20/2019	100.2	8,716	9,009	4,103	400,020	7,260	0
16	2/20/2019	100.1	8,608	8,899	4,376	400,120	7,008	0
17	2/20/2019	99.7	8,774	9,127	4,408	400,220	7,855	0
18	2/20/2019	100.6	8,832	9,042	4,380	399,680	8,128	0
19	2/21/2019	100.2	8,606	9,418	4,329	400,340	7,165	0
20	2/21/2019	98.5	8,823	9,401	4,131	400,140	7,190	0
21	2/21/2019	100.5	8,436	8,632	4,137	450,160	7,576	0
22	2/25/2019	98.4	8,553	9,413	4,939	450,220	8,894	0
23	2/25/2019	100.7	8,444	8,736	4,031	450,200	7,880	0
24	2/26/2019	100.6	8,335	8,614	4,461	450,560	7,691	0
25	2/26/2019	100.7	8,434	8,689	4,300	450,280	7,681	0
26	2/26/2019	99.1	8,481	9,538	4,011	450,060	7,532	0
27	2/26/2019	97.0	8,645	9,387	3,680	449,900	7,366	0
28	2/26/2019	100.8	7,959	8,477	4,029	450,040	7,528	0
29	2/26/2019	100.3	7,933	8,809	4,584	450,580	7,471	0
30	2/27/2019	100.4	7,808	8,154	4,240	450,820	7,557	0
31	2/27/2019	100.8	7,740	8,052	4,217	600,780	9,704	0
32	2/27/2019	101.3	7,875	8,429	4,103	599,560	9,594	0
33	2/27/2019	99.9	7,472	7,862	3,847	600,040	9,477	0
34	2/27/2019	100.8	7,418	9,093	3,881	600,060	9,600	0
35	2/27/2019	100.9	7,533	7,890	4,405	600,760	9,301	0
36	2/28/2019	101.1	7,461	7,914	3,771	600,200	9,706	0
37	2/28/2019	99.7	8,142	9,556	3,738	600,000	9,595	0
38	2/28/2019	100.6	7,656	9,526	3,749	600,120	9,578	0
39	2/28/2019	100.3	7,939	9,034	4,192	600,420	9,499	0
40	3/1/2019	101.0	7,520	7,926	3,851	600,540	9,615	0

516600 47-095-02512-00-00 Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
1 (Toe Sub)	2/17/2019	16,153	16,155	0	MARCELLUS
2	2/17/2019	15,953	16,135	40	MARCELLUS
3	2/17/2019	15,753	15,935	40	MARCELLUS
4	2/18/2019	15,553	15,735	40	MARCELLUS
5	2/18/2019	15,353	15,535	40	MARCELLUS
6	2/18/2019	15,153	15,335	40	MARCELLUS
7	2/18/2019	14,953	15,135	40	MARCELLUS
8	2/18/2019	14,753	14,935	40	MARCELLUS
9	2/19/2019	14,553	14,735	40	MARCELLUS
10	2/19/2019	14,353	14,535	40	MARCELLUS
11	2/19/2019	14,153	14,335	40	MARCELLUS
12	2/19/2019	13,953	14,135	40	MARCELLUS
13	2/19/2019	13,753	13,935	40	MARCELLUS
14	2/19/2019	13,553	13,735	40	MARCELLUS
15	2/20/2019	13,353	13,535	40	MARCELLUS
16	2/20/2019	13,153	13,335	40	MARCELLUS
17	2/20/2019	12,953	13,135	40	MARCELLUS
18	2/20/2019	12,753	12,935	40	MARCELLUS
19	2/20/2019	12,553	12,735	40	MARCELLUS
20	2/21/2019	12,353	12,535	40	MARCELLUS
21	2/21/2019	12,153	12,335	40	MARCELLUS
22	2/21/2019	11,953	12,135	40	MARCELLUS
23	2/25/2019	11,753	11,935	40	MARCELLUS
24	2/25/2019	11,553	11,735	40	MARCELLUS
25	2/26/2019	11,353	11,535	40	MARCELLUS
26	2/26/2019	11,153	11,335	40	MARCELLUS
27	2/26/2019	10,953	11,135	40	MARCELLUS
28	2/26/2019	10,753	10,935	40	MARCELLUS
29	2/26/2019	10,553	10,735	40	MARCELLUS
30	2/26/2019	10,353	10,535	40	MARCELLUS
31	2/27/2019	10,153	10,335	40	MARCELLUS
32	2/27/2019	9,953	10,135	40	MARCELLUS
33	2/27/2019	9,753	9,935	40	MARCELLUS
34	2/27/2019	9,553	9,735	40	MARCELLUS
35	2/27/2019	9,353	9,535	40	MARCELLUS
36	2/28/2019	9,153	9,335	40	MARCELLUS
37	2/28/2019	8,953	9,135	40	MARCELLUS
38	2/28/2019	8,753	8,935	40	MARCELLUS
39	2/28/2019	8,553	8,735	40	MARCELLUS
40	2/28/2019	8,353	8,535	40	MARCELLUS
Kill Plug	3/1/2019	8,263	8,265	0	MARCELLUS

API 47-095-02512

Formation Name	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm (TVD) (ftKB)
FRESH WATER ZONE	0	204	0	204
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	1833
MAXTON	1843	2042	1833	2029
SAND/SHALE	2042	2116	2029	2102
BIG LIME	2116	2400	2102	2382
SAND/SHALE	2400	2408	2382	2390
WEIR	2408	2455	2390	2437
SAND/SHALE	2455	2495	2437	2476
GANTZ	2495	2512	2476	2493
SAND/SHALE	2512	2609	2493	2590
FIFTY FOOT	2609	2664	2590	2645
SAND/SHALE	2664	2695	2645	2676
THIRTY FOOT	2695	2749	2676	2730
SAND/SHALE	2749	2775	2730	2756
GORDON	2775	2820	2756	2801
SAND/SHALE	2820	2846	2801	2827
FORTH SAND	2846	2908	2827	2889
SAND/SHALE	2908	2959	2889	2940
FIFTH SAND	2959	2972	2940	2953
SAND/SHALE	2972	3016	2953	2997
BAYARD	3016	3153	2997	3130
SAND/SHALE	3153	3379	3130	3336
WARREN	3379	3445	3336	3390
SAND/SHALE	3445	3465	3390	3405
SPEECHLEY	3465	3579	3405	3491
SAND/SHALE	3579	3981	3491	3803
BALLTOWN A	3981	4093	3803	3886
SAND/SHALE	4093	4579	3886	4251
RILEY	4579	4869	4251	4471
SAND/SHALE	4869	5000	4471	4571
BENSON	5000	5063	4571	4618
SAND/SHALE	5063	5247	4618	4752
ALEXANDER	5247	5329	4752	4813
ELKS	5329	7337	4813	6285
SONYEA	7337	7537	6285	6471
MIDDLESEX	7537	7610	6471	6467
GENESEE	7610	7754	6467	6545
GENESEO	7754	7820	6545	6573
TULLY	7820	7891	6573	6598
HAMILTON	7891	7953	6598	6615
MARCELLUS	7953	16230	6615	6660

Hydraulic Fracturing
DISCLOSURE



FIND A WELL BY STATE **ABOUT PROJECT PARTNERS**

(Note: Clicking the FracFocus, FIND A WELL links will open a new window.)



Submission to FracFocus Successful!

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2d794ab4-fd34-4914-b5fc-fea1721497a2

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/17/2019
Job End Date:	3/1/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02512-00-00
Operator Name:	EQT Production
Well Name and Number:	516600
Latitude:	39.36663800
Longitude:	-80.82095900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,615
Total Base Water Volume (gal):	13,363,182
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	Profrac	Carrier/Base Fluid					
StimStream SC-398	Chemstream	Scale Inhibitor					
			Water	7732-18-5	100.00000	85.69199	None
							Listed Below



			64742-47-8	Petroleum Distillate	20.00000	0.00966	None
			64742-47-8	Petroleum Distillate	20.00000	0.00966	None
			Proprietary	Non-Hazardous Substances	90.00000	0.00834	None
			Proprietary	Non-Hazardous Substances	90.00000	0.00834	None
			111-30-8	Glutaraldehyde	20.00000	0.00281	None
			93-83-4	Oleic Acid	2.00000	0.00097	None
			68551-12-2	Alcohols, C12-16, Ethoxylated	2.00000	0.00097	None
			68551-12-2	Alcohols, C12-16, Ethoxylated	2.00000	0.00097	None
			93-83-4	Oleic Acid	2.00000	0.00097	None
			34690-00-1	Bis(Hexamethylene Trimine Penta (Methylene Phosphonic Acid) (BHMT)	10.00000	0.00093	None
			34690-00-1	Bis(Hexamethylene Trimine Penta (Methylene Phosphonic Acid) (BHMT)	10.00000	0.00093	None
			12525-02-9	Ammonium Chloride ((NH4)Cl)	1.00000	0.00048	None
			12525-02-9	Ammonium Chloride ((NH4)Cl)	1.00000	0.00048	None
			68391-01-5	Alkyl Dimethyl Benzyl Ammonium Chloride	3.00000	0.00042	None
			7173-51-5	Didecyl Dimethyl Ammonium Chloride	3.00000	0.00042	None
			67-56-1	Methanol	90.00000	0.00019	None
			67-56-1	Methanol	90.00000	0.00019	None
			67-56-1	Methanol	90.00000	0.00019	None
			77-92-9	Citric Acid	100.00000	0.00001	None
			77-92-9	Citric Acid	100.00000	0.00001	None
			68526-83-0	Alcohols, C7-9-ISO, C8-Rich	5.00000	0.00001	None
			1330-20-7	Xylene	5.00000	0.00001	None
			61790-69-0	Imidazoline	5.00000	0.00001	None

			Propargyl Alcohol	107-19-7	5.00000	0.00001	None
			Isopropanol	67-63-0	5.00000	0.00001	
			Imidazoline	61790-69-0	5.00000	0.00001	
			Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00000	0.00001	None
			Propargyl Alcohol	107-19-7	5.00000	0.00001	
			Isopropanol	67-63-0	5.00000	0.00001	None
			Xylene	1330-20-7	5.00000	0.00001	None
			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)

WEU4
WEU4H14

EQT PRODUCTION COMPANY

A	RICHARD H. METCALF	61.57 AC.±	TM C-16-17
B	JOHN R. ANDERS II	19.75 AC.±	TM C-16-21.1
C	JOHN R. ANDERS II	0.09 AC.±	TM C-16-14.2
D	RICHARD H. METCALF	0.61 AC.±	TM C-16-14.1
E	CONRAD COSTILOW	46.17 AC.±	TM C-16-14
F	DONNA I. PETER	113.4 AC.±	TM C-16-22
G	PAUL WEEKLY (LIFE)	5 AC.±	TM C-16-28
H	EDWARD, II & CAROLYN WHITE	18 AC.±	TM C-16-27
I	EDWARD, II & CAROLYN WHITE	16 AC.±	TM M-21-40
J	EDWARD, II & CAROLYN WHITE	12.50 AC.±	TM M-21-39
K	EDWARD, II & CAROLYN WHITE	40 AC.±	TM M-21-38
L	ASIA DELL CUMBRLEDGE	75.75 AC.±	TM M-21-32
M	BRUCE & SANDRA STONEKING (LIFE)	69.44 AC.±	TM M-21-29
N	BRUCE & SANDRA STONEKING (LIFE)	42.86 AC.±	TM M-21-28
O	CHASIS F. & RUBBA J. BARTRUG	109.94 AC.±	TM C-16-10
P	GARY DA VENPORT	16 AC.±	TM M-21-25
Q	PEGGY A. WHITE	113.4 AC.±	TM M-21-22
R	ROGER BERGUSON	3.053 AC.±	TM M-21-17.1
S	BOBBY D. & RITA L. DOLL	49 AC.±	TM M-21-11
T	GAMALIEL REYBS ET AL	0.58 AC.±	TM M-21-08
U	PERRY L. HAUGHT JR.	16.21 AC.±	TM M-21-10
V	BILLY JOB DOLL	0.58 AC.±	TM M-21-9.1
W	LESTER RAY HAUGHT	0.25 AC.±	TM M-21-12
X	PERRY J. HAUGHT JR.	2.48 AC.±	TM M-21-13.1
Y	DONNIE & KIM WILMOTH	52.52 AC.±	TM M-21-13
Z	DONNIE & KIM WILMOTH	73.39 AC.±	TM M-21-14
AA	BARBARA WILLIHR	5.90 AC.±	TM M-18-21
BB	BARBARA WILLIHR	14 AC.±	TM M-18-22.1
CC	GARY A. MIDCAP ET AL	39.26 AC.±	TM M-18-22
DD	DONNIE N. & KIM M. WILMOTH	63.29 AC.±	TM M-21-09
EE	TABITHA R. EIDLE	2.59 AC.±	TM M-21-9.2
FF	TABITHA R. EIDLE	0.88 AC.±	TM M-21-07
GG	CHRIS BAUM ET AL	13 AC.±	TM M-21-03
HH	CHRIS BAUM ET AL	14 AC.±	TM M-21-02
II	JAMES B. MEANS	90 AC.±	TM M-18-24
JJ	CHRIS BAUM ET AL	24 AC.±	TM M-21-01
KK	WILLIAM N. & MARY C. DANIELS	45.86 AC.±	TM C-13-07
LL	PAUL DOLVIN	21.66 AC.±	TM C-13-06
MM	CHRIS BAUM ET AL	22.31 AC.±	TM C-13-05
NN	CHRIS BAUM ET AL	28 AC.±	TM C-13-5.1
OO	BRUCE B. SECKMAN	111.75 AC.±	TM M-18-23
PP	BRENDA J. ASHLEY	22.65 AC.±	TM M-18-7.2
QQ	OK NAN KEYS	13.018 AC.±	TM M-18-07
RR	ALPHA MAE SECKMAN	1 AC.±	TM M-18-23.1
SS	PAUL WEEKLY (LIFE)	36 AC.±	TM M-21-15
TT	PAUL WEEKLY (LIFE)	36 AC.±	TM M-21-16
UU	DONNIE N. & KIM M. WILMOTH	7.50 AC.±	TM M-21-27
VV	PEGGY ANN WHITE	5 AC.±	TM M-21-26
WW	TRUSTEES OF FAIRVIEW CHURCH	1 AC.±	TM M-21-24
XX	MARK A. & JOEL A. PROSSER	2.50 AC.±	TM C-16-15
YY	MARK A. & JOEL A. PROSSER	0.50 AC.±	TM C-16-12
ZZ	JEPFREY E. & ANITA L. HOOVER	24.84 AC.±	TM C-16-16
AAA	BOBBY D. DOLL ET AL	1 AC.±	TM M-21-31
BBB	CHRIS BAUM ET AL	56.84 AC.±	TM C-16-23

AS-DRILLED BH

BH

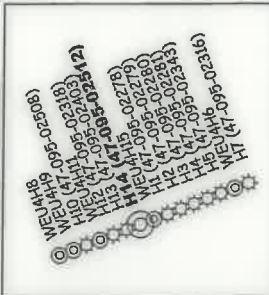
BOTTOM HOLE LATITUDE 39°25'00"

8,989'

8.965'



PAD DETAIL



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

NAD27 S.P.C.(FT)	N. 318,392.30	E. 1,626,564.08
NAD27 GEO.	LAT-(N) 39.366638	LONG-(W) 80.820880
NAD83 UTM (M)	N. 4,357,488.40	E. 515,444.77

LANDING POINT

NAD27 S.P.C.(FT)	N. 319,421.37	E. 1,629,575.42
NAD27 GEO.	LAT-(N) 39.369584	LONG-(W) 80.810283
NAD88 UTM (M)	N. 4,357,817.24	E. 516,356.95

BOTTOM HOLE

NAD27 S.P.C.(FT)	N. 326,653.36	E. 1,625,962.97
NAD27 GEO.	LAT-(N) 39.389292	LONG-(W) 80.823472
NAD83 UTM (M)	N. 4,356,002.04	E. 515,216.60

AS-DRILLED COORDINATES

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

NAD27 S.P.C.(FT)	N. 318,392.30	E. 1,626,564.08
NAD27 GEO.	LAT-(N) 39.366638	LONG-(W) 80.820880
NAD83 UTM (M)	N. 4,357,488.40	E. 515,444.77

LANDING POINT

NAD27 S.P.C.(FT)	N. 319,423.92	E. 1,629,582.17
NAD27 GEO.	LAT-(N) 39.369591	LONG-(W) 80.810260
NAD88 UTM (M)	N. 4,357,818.05	E. 516,358.99

BOTTOM HOLE

NAD27 S.P.C.(FT)	N. 326,636.30	E. 1,625,977.48
NAD27 GEO.	LAT-(N) 39.389246	LONG-(W) 80.823384
NAD83 UTM (M)	N. 4,359,996.97	E. 515,224.15

ROYALTY OWNERS

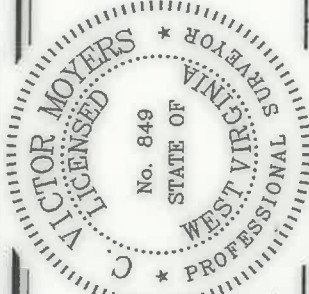
ROXIE DAVIS ET AL	63 AC.±	LEASE NO. 126206
HESTER BRITTON ET AL	76 AC.±	LEASE NO. 126165
JERRY RAY BROWN ET AL	85 AC.±	LEASE NO. 126167
EQT MINERAL PURCHASING GROUP ET AL	18 AC.±	LEASE NO. 126221
BRG APPALACHIAN MINERALS, LLC ET AL	65 AC.±	LEASE NO. 126213
EQT MINERAL PURCHASING GROUP	65 AC.±	LEASE NO. 126191
CHX GAS COMPANY	66 AC.±	LEASE NO. 126131
GEORGE BIRKLEIN ET AL	90 AC.±	LEASE NO. 126130
ROBERT SECKMAN ET AL	113 AC.±	LEASE NO. 126164

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.



SLS Land & Energy Development
Solutions on the ground up.
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I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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*

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

DATE: FEBRUARY 13, 2019
REVISED: _____
OPERATORS WELL NO.: WEU4H14
API WELL NO.: 47-95-02512
STATE: WV COUNTY: PERMIT

MINIMUM DEGREE OF ACCURACY: 1/2500
FILE NO.: 7701PWU4H14AD.dwg (516600)
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
SCALE: SEE NOTE 2

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



WELL TYPE: OIL GAS INJECTION WASTE LIQUID DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION: PAD ELEVATION 1,079' WATERSHED TRIBUTARY OF CAMP MISTAKE RUN

DISTRICT: CENTERVILLE COUNTY: TYLER
SURFACE OWNER: DONNA J. PETER
ROYALTY OWNER: WACO OIL & GAS CO. INC. ET AL
ACREAGE: 113.40±
LEASE NO.: 126129

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE 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: 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330
ADDRESS: 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

WEU4

WEU4H14

EQT PRODUCTION COMPANY

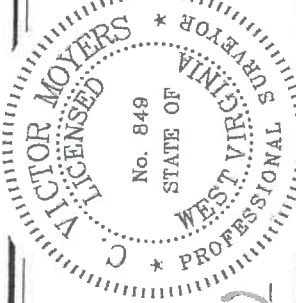
A	RICHARD EL MITCALIF	61.57 AC.±	TM C-16-17
B	JOHN R. ANDERS II	19.75 AC.±	TM C-16-21.1
C	JOHN R. ANDERS II	0.09 AC.±	TM C-16-14.2
D	RICHARD EL MITCALIF	0.61 AC.±	TM C-16-14.1
E	CONRAD COSTILOW	46.17 AC.±	TM C-16-14
F	DONNA J. PETER	113.4 AC.±	TM C-16-22
G	PAUL WEEKLY (LIFE)	5 AC.±	TM C-16-28
H	PAUL WEEKLY (LIFE)	18 AC.±	TM C-16-27
I	EDWARD II & CAROLYN WHITE	16 AC.±	TM M-21-40
J	EDWARD II & CAROLYN WHITE	12.50 AC.±	TM M-21-39
K	EDWARD II & CAROLYN WHITE	40 AC.±	TM M-21-38
L	ASIA DELL CUMBERLEDGE	75.75 AC.±	TM M-21-32
M	BRUCE & SANDRA STONEKING (LIFE)	69.44 AC.±	TM M-21-28
N	BRUCE & SANDRA STONEKING (LIFE)	42.86 AC.±	TM M-21-29
O	CHAS E. & REBA J. BARTRUG	109.94 AC.±	TM C-16-10
P	GARY DA VENPORT	16 AC.±	TM M-21-25
Q	PEGGY A. WHITE	113.4 AC.±	TM M-21-22
R	ROGER FERGUSON	3.053 AC.±	TM M-21-17.1
S	BOBBY D. & RITA L. DOLL	49 AC.±	TM M-21-11
T	GAMALIEL REYES ET AL	0.58 AC.±	TM M-21-10
U	PERRY L. HAUGHT JR.	16.21 AC.±	TM M-21-08
V	BILLY JOE DOLL	0.58 AC.±	TM M-21-9.1
W	LESTER RAY HAUGHT	0.25 AC.±	TM M-21-12
X	PERRY J. HAUGHT JR	2.48 AC.±	TM M-21-13.1
Y	DONNIE & KIM WILMOTH	52.52 AC.±	TM M-21-13
Z	DONNIE & KIM WILMOTH	73.39 AC.±	TM M-21-14
AA	BARBARA WILLIER	5.90 AC.±	TM M-18-21
BB	BARBARA WILLIER	14 AC.±	TM M-18-22.1
CC	GARY A. MIDCAP ET AL	39.26 AC.±	TM M-18-22
DD	DONNIE N. & KIM M. WILMOTH	63.29 AC.±	TM M-21-09
EE	TABITHA R. RIDLE	2.59 AC.±	TM M-21-9.2
FF	TABITHA R. RIDLE	0.88 AC.±	TM M-21-07
GG	CHRIS BAUM ET AL	13 AC.±	TM M-21-03
HH	CHRIS BAUM ET AL	14 AC.±	TM M-21-02
II	JAMES B. MIZANS	90 AC.±	TM M-18-24
JJ	CHRIS BAUM ET AL	24 AC.±	TM M-21-01
KK	WILLIAM N. & MARY C. DANIELS	45.86 AC.±	TM C-13-07
LL	PAUL DOLVIN	21.66 AC.±	TM C-13-06
MM	CHRIS BAUM ET AL	22.31 AC.±	TM C-13-05
NN	CHRIS BAUM ET AL	28 AC.±	TM C-13-5.1
OO	BRUCE B. SECKMAN	111.75 AC.±	TM M-18-23
PP	BRENDA J. ASHLEY	22.65 AC.±	TM M-18-7.2
QQ	OK NAN KEYS	13.018 AC.±	TM M-18-07
RR	ALTHEA MAE SECKMAN	1 AC.±	TM M-18-23.1
SS	PAUL WEEKLY (LIFE)	36 AC.±	TM M-21-15
TT	PAUL WEEKLY (LIFE)	36 AC.±	TM M-21-16
UU	DONNIE N. & KIM M. WILMOTH	7.50 AC.±	TM M-21-27
VV	PEGGY ANN WHITE	5 AC.±	TM M-21-26
WW	TRUSTEES OF FAIRVIEW CHURCH	1 AC.±	TM M-21-24
XX	MARK A. & JOEL A. PROSSER	2.50 AC.±	TM C-16-15
YY	MARK A. & JOEL A. PROSSER	0.50 AC.±	TM C-16-12
ZZ	JERRY E. & ANITA L. HOOVER	24.84 AC.±	TM C-16-16
AAA	ROBBY D. DOLL ET AL	1 AC.±	TM M-21-31
BBB	CHRIS BAUM ET AL	56.84 AC.±	TM C-16-23



P.O. Box 150 • 412 Vinton Drive • Glenview, WV 26031 • (304) 462-5204

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

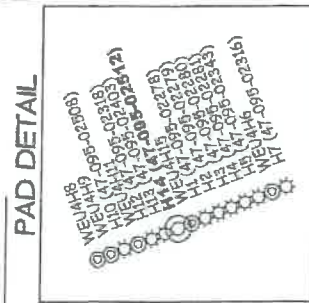
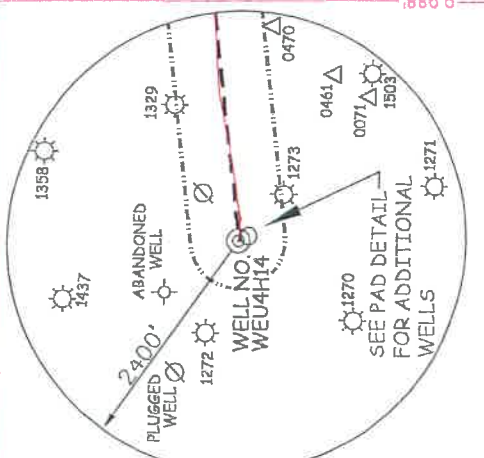
P.S. 849 *C. Victor Moyers*



MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7701PWU4H14AD.dwg (516600)
 HORIZONTAL & VERTICAL SCALE SEE NOTE 2
 CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

WELL TYPE: OIL _____ GAS LIQUID WASTE IF _____
 LOCATION: INJECTION _____ DISPOSAL _____
 "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 PAD ELEVATION 1,079' WATERSHED _____ TRIBUTARY OF CAMP MISTAKE RUN
 DISTRICT CENTERVILLE COUNTY TYLER
 SURFACE OWNER DONNA J. PETER
 QUADRANGLE WEST UNION 7.5'
 ROYALTY OWNER WACO OIL & GAS CO. INC. ET AL
 ACREAGE 113.40±
 PROPOSED WORK: ACREAGE 152±
 LEASE NO. 126129
 DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____
 FRACTURE OR STIMULATE 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 115 PROFESSIONAL PLACE P.O. BOX 280
 BRIDGEPORT, WV 26330
 PERMIT



(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)	
NAD27 S.P.C.(FT)	N. 318,392.30 E. 1,926,564.08
NAD27 GEO.	LAT-(N) 39.366638 LONG-(W) 80.820680
NAD83 UTM (M)	N. 4,357,488.40 E. 515,444.77
LANDING POINT	
NAD27 S.P.C.(FT)	N. 319,421.37 E. 1,629,575.42
NAD27 GEO.	LAT-(N) 39.369584 LONG-(W) 80.810283
NAD83 UTM (M)	N. 4,357,817.24 E. 516,556.95
BOTTOM HOLE	
NAD27 S.P.C.(FT)	N. 326,653.95 E. 1,625,952.87
NAD27 GEO.	LAT-(N) 39.399292 LONG-(W) 80.823472
NAD83 UTM (M)	N. 4,360,002.04 E. 515,216.60
AS-DRILLED COORDINATES	
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)	
NAD27 S.P.C.(FT)	N. 318,392.30 E. 1,626,564.08
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NAD83 UTM (M)	N. 4,359,996.97 E. 515,224.15

ROYALTY OWNERS	
ROXIE DAVIS ET AL	53 AC.± LEASE NO. 126208
HESTER BRITTON ET AL	76 AC.± LEASE NO. 126166
JERRY RAY/BROWN ET AL	85 AC.± LEASE NO. 126187
EQT MINERAL PURCHASING GROUP ET AL	19 AC.± LEASE NO. 126221
BRG APPALACHIAN MINERALS, LLC ET AL	55 AC.± LEASE NO. 126213
EQT MINERAL PURCHASING GROUP	55 AC.± LEASE NO. 126181
CNX GAS COMPANY	55 AC.± LEASE NO. 126131
GEORGE BIRKLEIN ET AL	90 AC.± LEASE NO. 126130
ROBERT SECKMAN ET AL	113 AC.± LEASE NO. 126164

- NOTES ON SURVEY**
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 - 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 FEBRUARY 13, 2019
 OPERATORS WELL NO. WEU4H14

STATE 47 COUNTY 95 PERMIT NO. 02512

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

