

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

API 47-095 - 02507 County Tyler District Centerville
Quad West Union Pad Name WEU4 Field/Pool Name N/A
Farm name Donna J Peter Well Number WEU4H6 (512895)

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 4,357,458.74 Easting 515,456.77
Landing Point of Curve Northing 4,357,439.88 Easting 515,877.04
Bottom Hole Northing 4,356,253.98 Easting 516,449.74

Elevation (ft) 1079' GI 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 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), Gilsomite (Ecco-Blok)

Date permit issued 8/3/2018 Date drilling commenced 10/15/2018 Date drilling ceased 1/24/2019
Date completion activities began 3/17/2019 Date completion activities ceased 3/21/2019
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 132, 175, 186, 204 Open mine(s) (Y/N) depths N
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:

Reviewed
gpb
6/24/2019

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API 47-095 - 02507

Farm name Donna J Peter

Well number WEU4H6 (512895)

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#	204	Y
Coal							
Intermediate 1	12-3/8"	9-5/8"	2864'	NEW	A-500 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	11653'	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	772	16	1.13	872	0	20.6
Coal							
Intermediate 1	CLASS H	1144	16.8	1.07	1224	0	21.1
Intermediate 2							
Intermediate 3							
Production	CLASS A	1590	15.6	1.23	1956	4000	+72
Tubing							

Drillers TD (ft) 11,661' 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) 5058' 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

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

PRODUCTION: 161 Composite bodied centralizers on every joint from TD up to 4284' MD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS

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

API 47- 095 - 02507 Farm name Donna J Peter Well number WEU4H6 (512895)

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

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

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512895 47-095-02507-00-00 Performations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
1 (Toe Sub)	2/23/2019	11,578	11,580	0	MARCELLUS
2	3/17/2019	11,413	11,554	32	MARCELLUS
3	3/17/2019	11,213	11,394	40	MARCELLUS
4	3/18/2019	11,013	11,194	40	MARCELLUS
5	3/18/2019	10,813	10,994	40	MARCELLUS
6	3/18/2019	10,613	10,794	40	MARCELLUS
7	3/18/2019	10,413	10,594	40	MARCELLUS
8	3/18/2019	10,213	10,394	40	MARCELLUS
9	3/18/2019	10,013	10,194	40	MARCELLUS
10	3/19/2019	9,813	9,994	40	MARCELLUS
11	3/19/2019	9,613	9,794	40	MARCELLUS
12	3/19/2019	9,413	9,594	40	MARCELLUS
13	3/19/2019	9,213	9,394	40	MARCELLUS
14	3/19/2019	9,013	9,194	40	MARCELLUS
15	3/19/2019	8,813	8,995	40	MARCELLUS
16	3/20/2019	8,613	8,794	40	MARCELLUS
17	3/20/2019	8,413	8,594	40	MARCELLUS
18	3/20/2019	8,213	8,395	40	MARCELLUS
19	3/20/2019	8,013	8,195	40	MARCELLUS
20	3/20/2019	7,813	7,995	40	MARCELLUS
21	3/21/2019	7,613	7,794	40	MARCELLUS
Kill Plug	3/21/2019	7,513	7,515	0	MARCELLUS

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512895 47-095-02507-00-00 - 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	3/17/2019	85.00	8,100	8,603	4,481	210,060	4,431	0
2	3/17/2019	99.80	8,258	8,670	3,840	420,060	7,664	0
3	3/18/2019	100.00	7,874	8,402	3,892	525,000	8,833	0
4	3/18/2019	98.90	7,674	8,002	4,080	525,300	8,751	0
5	3/18/2019	97.85	7,658	8,043	4,103	525,300	8,668	0
6	3/18/2019	99.17	7,874	8,247	4,035	525,140	8,655	0
7	3/18/2019	99.10	7,903	8,394	4,022	525,180	8,671	0
8	3/18/2019	99.10	7,825	8,629	4,273	525,080	8,804	0
9	3/19/2019	99.10	7,734	7,933	4,517	525,200	8,579	0
10	3/19/2019	98.70	7,726	7,965	4,553	525,000	8,527	0
11	3/19/2019	99.40	7,651	8,089	4,364	525,700	8,519	0
12	3/19/2019	100.70	7,606	7,824	4,331	525,040	8,481	0
13	3/19/2019	98.00	7,667	7,971	4,222	525,540	8,456	0
14	3/19/2019	99.30	7,465	7,626	4,299	525,060	8,393	0
15	3/20/2019	99.40	7,573	7,756	4,209	525,080	8,381	0
16	3/20/2019	99.50	7,641	7,865	4,244	525,060	8,340	0
17	3/20/2019	100.74	7,508	7,779	4,137	525,560	8,377	0
18	3/20/2019	101.88	7,509	7,719	4,283	524,780	8,292	0
19	3/20/2019	100.00	7,504	7,702	4,229	525,060	8,452	0
20	3/20/2019	100.10	7,804	8,152	4,183	525,000	8,372	0
21	3/21/2019	100.80	7,671	7,932	4,228	516,520	8,468	0
Kill Plug	3/21/2019							0

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Welcome Sydney H., Operator - OpNo. E1210363 | Log Out]

Hydraulic Fracturing
DISCLOSURE (/)



FIND A WELL
BY STATE
ABOUT PROJECT PARTNERS
(/DisclosureSearch/Search.aspx) (/About.aspx)

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

(http://www.fracfocus.org)



Submission to FracFocus Successful!

Dashboard

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ecf1ff7b-7e6d-4cdf-b32c-e9e94c3f4062

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/17/2019
Job End Date:	3/21/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02507-00-00
Operator Name:	EOG Production
Well Name and Number:	512895
Latitude:	39.36637000
Longitude:	-80.82074200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,613
Total Base Water Volume (gal):	7,315,182
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					
			Water	7732-18-5	100.00000	85.04318	None
StimStream FR 9800	Chemstream	Friction Reducer					
				Listed Below			

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Clearal 268	Chemstream	Bacteria Treatment							
				Listed Below					
StimStream SC-398	Chemstream	Scale Inhibitor							
				Listed Below					
ProHib 100	ProFrac	Acid Corrosion Inhibitor							
				Listed Below					
Other Chemical (s)	Listed Above	See Trade Name (s) List							
				Listed Below					
Hydrochloric Acid (15%)	ProFrac	Acidizing							
				Listed Below					
Sand (Proppant)	ProFrac	Proppant							
				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	14.76666	None		
		Hydrochloric Acid		7647-01-0	15.00000	0.01718	None		
		Copolymer Of 2-Propenamide		Proprietary	30.00000	0.01569			
		Copolymer Of 2-Propenamide		Proprietary	30.00000	0.01569	None		
		Non-Hazardous Substances		Proprietary	90.00000	0.01252	None		
		Petroleum Dililliate		64742-47-8	20.00000	0.01046	None		
		Petroleum Dililliate		64742-47-8	20.00000	0.01046	None		

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			Non-Hazardous Substances	Proprietary	90.00000	0.00823	None
			Non-Hazardous Substances	Proprietary	90.00000	0.00823	
			Glutaraldehyde	111-30-8	20.00000	0.00278	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00105	
			Alcohols, C12-16, Ethoxylated	68551-12-2	2.00000	0.00105	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00105	None
			Alcohols, C12-16, Ethoxylated	68551-12-2	2.00000	0.00105	
			Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00091	
			Bis(HexaMethylene Triamine Penta (Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00091	None
			Ammonium Chloride ((NH4)Cl)	12125-02-9	1.00000	0.00052	
			Ammonium Chloride ((NH4)Cl)	12125-02-9	1.00000	0.00052	None
			Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	3.00000	0.00042	None
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	3.00000	0.00042	None
			Methanol	67-56-1	90.00000	0.00027	
			Methanol	67-56-1	90.00000	0.00027	None
			Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00000	0.00001	
			Propargyl Alcohol	107-19-7	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
			Imidazoline	61790-69-0	5.00000	0.00001	None
			Xylene	1330-20-7	5.00000	0.00001	

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API 47-095-02507

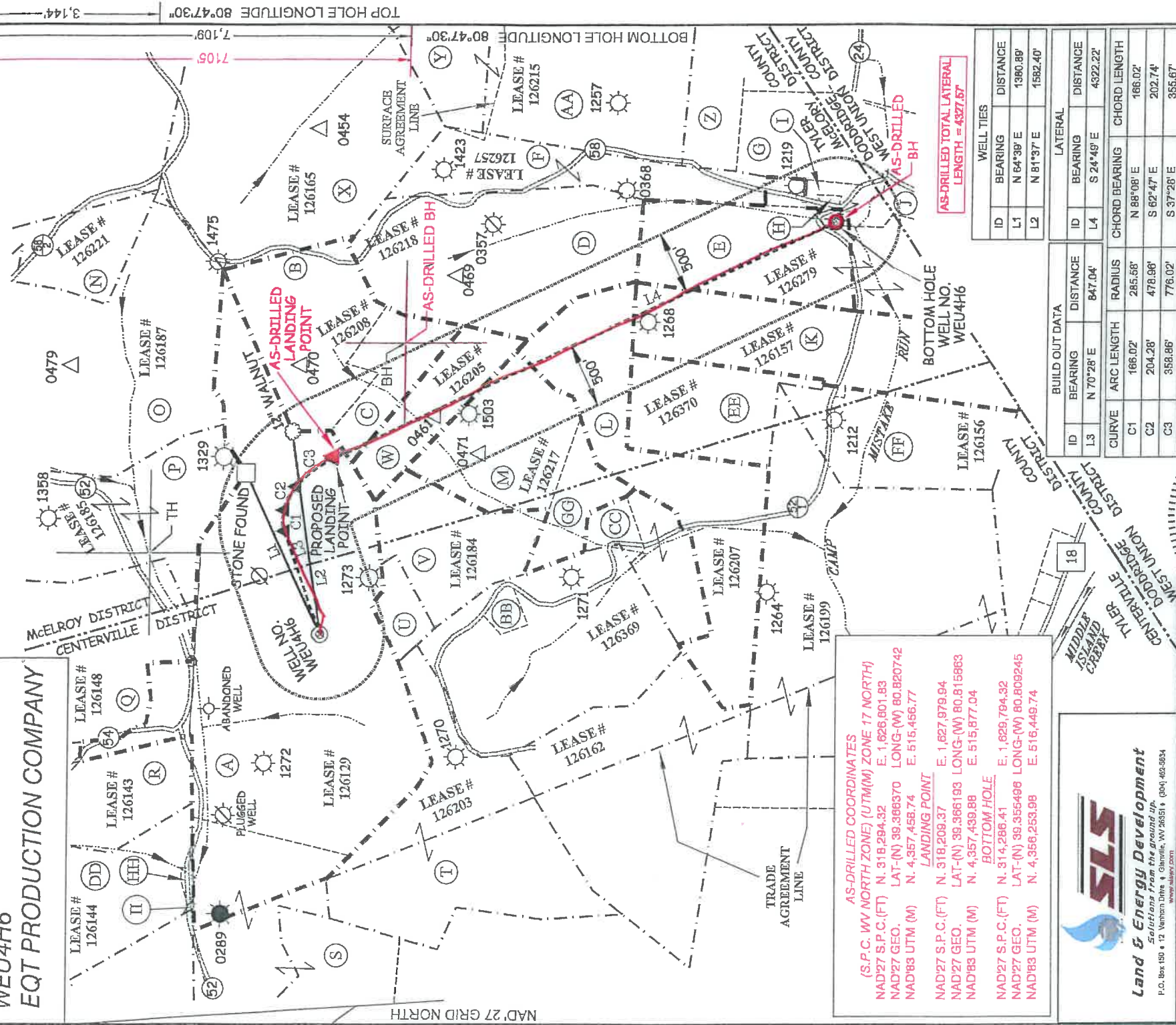
Formation Name	Drill Top MD (ftKB)	Drill Btm MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm (TVD) (ftKB)
FRESH WATER ZONE	0	204	0	204
SAND/SHALE	0	235	0	235
COAL	235	237	235	237
SAND/SHALE	237	286	237	286
COAL	286	290	286	290
SAND/SHALE	290	701	290	701
COAL	701	705	701	705
SAND/SHALE	705	1843	705	1832
MAXTON	1843	2042	1832	2031
SAND/SHALE	2042	2116	2031	2105
BIG LIME	2116	2400	2105	2389
SAND/SHALE	2400	2408	2389	2397
WEIR	2408	2455	2397	2444
SAND/SHALE	2455	2495	2444	2484
GANTZ	2495	2512	2484	2501
SAND/SHALE	2512	2609	2501	2598
FIFTY FOOT	2609	2664	2598	2653
SAND/SHALE	2664	2695	2653	2684
THIRTY FOOT	2695	2749	2684	2738
SAND/SHALE	2749	2775	2738	2764
GORDON	2775	2820	2764	2809
SAND/SHALE	2820	2846	2809	2835
FORTH SAND	2846	2908	2835	2897
SAND/SHALE	2908	2959	2897	2948
FIFTH SAND	2959	2972	2948	2961
SAND/SHALE	2972	3016	2961	3005
BAYARD	3016	3153	3005	3142
SAND/SHALE	3153	3379	3142	3368
WARREN	3379	3445	3368	3434
SAND/SHALE	3445	3465	3434	3454
SPEECHLEY	3465	3579	3454	3568
SAND/SHALE	3579	3981	3568	3970
BALLTOWN A	3981	4093	3970	4082
SAND/SHALE	4093	4579	4082	4568
RILEY	4579	4869	4568	4858
SAND/SHALE	4869	5000	4858	4989
BENSON	5000	5063	4989	5052
SAND/SHALE	5063	5247	5052	5234
ALEXANDER	5247	5329	5234	5311
ELKS	5329	6562	5311	6289
SONYEA	6562	6747	6289	6422
MIDDLESEX	6747	6818	6422	6466
GENESEE	6818	6971	6466	6545
GENESEO	6971	7039	6545	6572
TULLY	7039	7115	6572	6597
HAMILTON	7115	7175	6597	6613
MARCELLUS	7175	11661	6613	6639

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WEU4 WEU4H6 EQT PRODUCTION COMPANY

NAD'27 GRID NORTH



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

NAD'27 S.P.C.(FT)	N. 318,294.32	E. 1,626,601.83
NAD'27 GEO.	LAT-(N) 39.366370	LONG-(W) 80.820742
NAD'83 UTM (M)	N. 4,357,458.74	E. 515,456.77

LANDING POINT

NAD'27 S.P.C.(FT)	N. 318,209.37	E. 1,627,979.94
NAD'27 GEO.	LAT-(N) 39.366193	LONG-(W) 80.815863
NAD'83 UTM (M)	N. 4,357,439.88	E. 515,877.04

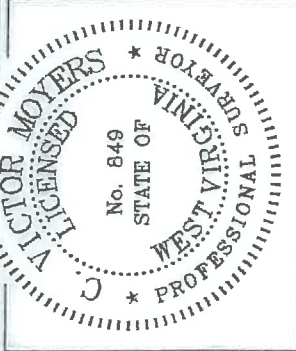
BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 314,286.41	E. 1,629,764.32
NAD'27 GEO.	LAT-(N) 39.355498	LONG-(W) 80.809245
NAD'83 UTM (M)	N. 4,358,253.98	E. 516,448.74



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 BY THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. *C. Victor Moyers*
849



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

NAD'27 S.P.C.(FT)	N. 318,294.32	E. 1,626,601.83
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LANDING POINT

NAD'27 S.P.C.(FT)	N. 318,207.71	E. 1,627,960.37
NAD'27 GEO.	LAT-(N) 39.366187	LONG-(W) 80.815893
NAD'83 UTM (M)	N. 4,357,439.27	E. 515,871.09

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 314,282.15	E. 1,629,790.87
NAD'27 GEO.	LAT-(N) 39.355484	LONG-(W) 80.809256
NAD'83 UTM (M)	N. 4,358,252.66	E. 516,448.71

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

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

SCALE 1" = 1000'
DATE MAY 29, 20 19
REVISED _____, 20 ____
OPERATORS WELL NO. WEU4H6
API WELL NO. 47-095-02507
NO. STATE COUNTY PERMIT

COUNTY NAME _____ PERMIT _____

LEGEND

—	LEASE LINE
- - -	SURFACE LINE
- - -	PROPOSED WELL LATERAL
- - -	EXISTING WELL LATERAL
- - -	PLUGGED WELL
○	STORAGE WELL
○	CENTERVILLE DIST. C-00-00
○	TAX MAP-PARCEL M-00-00
○	MCELROY DIST. M-00-00
○	WEST UNION DIST. WU-00-00
○	TAX MAP-PARCEL

WELL TIES		LATERAL	
ID	BEARING	ID	BEARING
L1	N 64°39' E	L4	S 24°49' E
L2	N 81°37' E		

BUILD OUT DATA		CHORD BEARING	
ID	BEARING	RADIUS	ARC LENGTH
L3	N 70°28' E	847.04'	847.04'
C1	186.02'	285.58'	N 88°08' E
C2	204.28'	478.86'	S 62°47' E
C3	358.86'	776.02'	S 37°26' E

CHORD LENGTH	
CHORD BEARING	DISTANCE
N 88°08' E	166.02'
S 62°47' E	202.74'
S 37°26' E	358.67'

AS-DRILLED TOTAL LATERAL LENGTH = 4327.57'

DESIGNATED AGENT JASON RANSON
WELL OPERATOR EQT PRODUCTION COMPANY
ADDRESS 2400 ANSYS DRIVE, SUITE 200
CANONSBURG, PA 15317

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280
BRIDGEPORT, WV 26330

WEU4
WEU4H6
EQT PRODUCTION COMPANY

BOTTOM HOLE LATITUDE 39°22'30"

4,974'

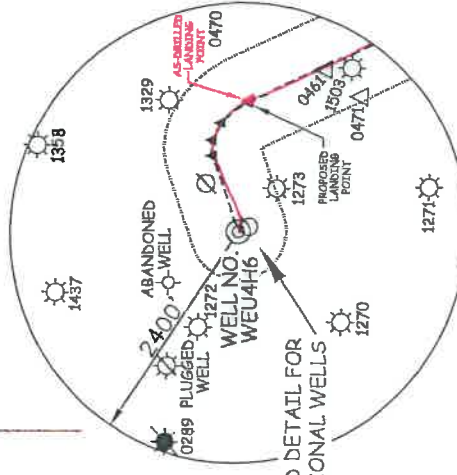
4,971'

(S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 316,294.32 E. 1,626,601.83
 NAD'27 GEO. LAT-(N) 39.366870 LONG-(W) 80.820742
 NAD'83 UTM (M) N. 4,357,458.74 E. 515,456.77
 LANDING POINT
 NAD'27 S.P.C.(FT) N. 318,207.71 E. 1,627,960.37
 NAD'27 GEO. LAT-(N) 39.366187 LONG-(W) 80.815933
 NAD'83 UTM (M) N. 4,357,439.27 E. 515,871.09
 BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 314,282.15 E. 1,629,790.87
 NAD'27 GEO. LAT-(N) 39.355484 LONG-(W) 80.809256
 NAD'83 UTM (M) N. 4,356,252.66 E. 516,448.71

ROYALTY OWNERS	
ROXIE DAVIS ET AL	53 AC.± LEASE NO. 126208
LUCIA A. ANCONA ET AL	16 AC.± LEASE NO. 126205
BLACKROCK ENTERPRISES LLC ET AL	30 AC.± LEASE NO. 126217
BEATRICE BRADY ET AL	47 AC.± LEASE NO. 126207
HESTER B. BRITTON ET AL	44 AC.± LEASE NO. 126157
JAMES T. McNULTY ET AL	30 AC.± LEASE NO. 126276

7.109'
 7.109'
 7.109'

AS-DRILLED BH



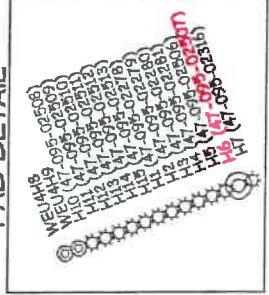
SEE PAD DETAIL FOR ADDITIONAL WELLS

AS-DRILLED TOTAL LATERAL LENGTH = 4327.57'

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.

PAD DETAIL



AS-DRILLED COORDINATES
 (S.P.C. WV NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 318,294.32 E. 1,626,601.83
 NAD'27 GEO. LAT-(N) 39.366870 LONG-(W) 80.820742
 NAD'83 UTM (M) N. 4,357,458.74 E. 515,456.77
 LANDING POINT
 NAD'27 S.P.C.(FT) N. 318,209.37 E. 1,627,879.94
 NAD'27 GEO. LAT-(N) 39.366183 LONG-(W) 80.815933
 NAD'83 UTM (M) N. 4,357,439.88 E. 515,877.04
 BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 314,286.41 E. 1,629,794.32
 NAD'27 GEO. LAT-(N) 39.355466 LONG-(W) 80.809245
 NAD'83 UTM (M) N. 4,356,253.98 E. 516,448.74



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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 MAY 29, 20 19
 REVISED _____, 20 ____
 OPERATORS WELL NO. WEU4H6

WELL NO. 47 - 095 - 02507
 STATE WV COUNTY PERMIT

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



MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7701PWU4H6AD.dwg (512895)

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

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

DISTRICT DONNA J. PETER QUADRANGLE WEST UNION 7.5
 SURFACE OWNER WACO OIL AND GAS INC. ET AL ACREAGE 113.40±
 ROYALTY OWNER WACO OIL AND GAS INC. ET AL ACREAGE 152±
 PROPOSED WORK: LEASE NO. 126129

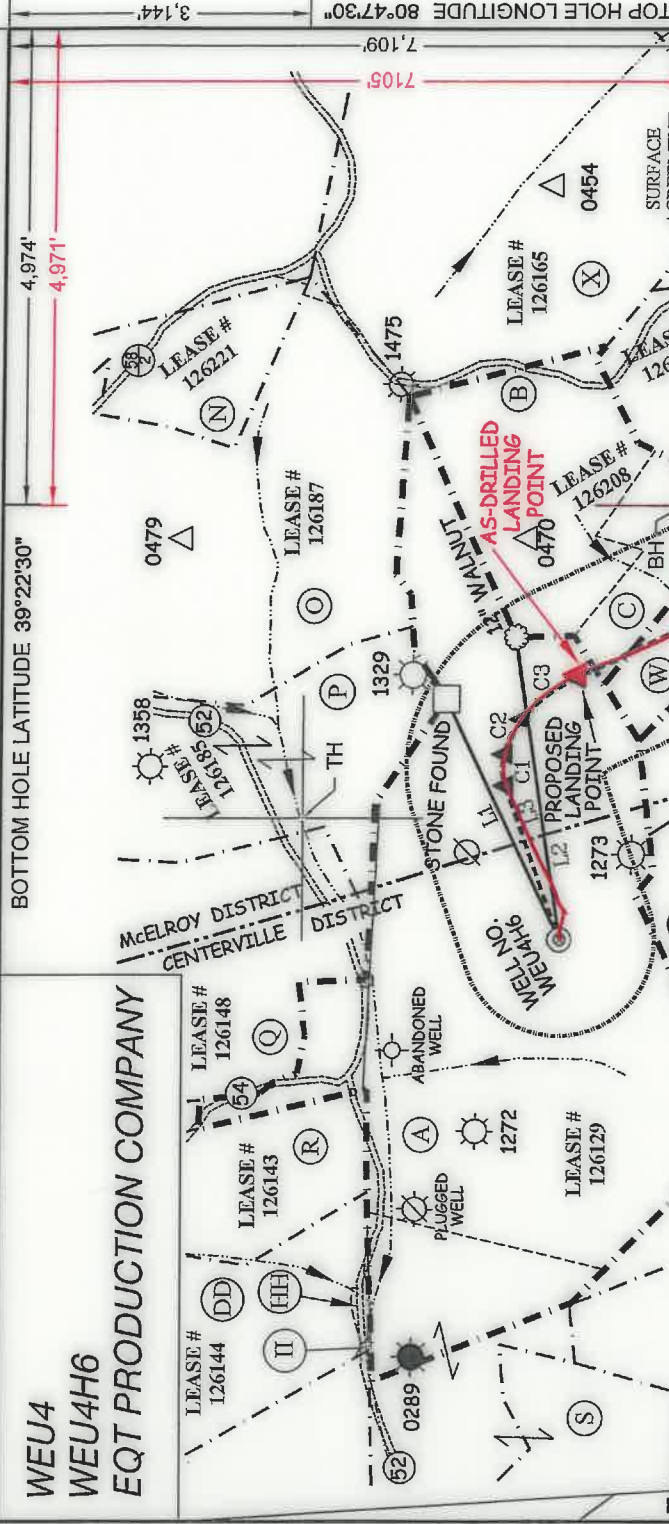
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 6,680'

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

WEU4

WEU4H6

EQT PRODUCTION COMPANY



NAD 27 GRID NORTH

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

NAD'27 S.P.C.(FT)	N. 318,294.32	E. 1,626,601.83
NAD'27 GEO.	LAT-(N) 39.366370	LONG-(W) 80.820742
NAD'83 UTM (M)	N. 4,357,458.74	E. 515,456.77

LANDING POINT

NAD'27 S.P.C.(FT)	N. 318,209.37	E. 1,627,979.94
NAD'27 GEO.	LAT-(N) 39.366193	LONG-(W) 80.815863
NAD'83 UTM (M)	N. 4,357,499.88	E. 515,877.04

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 314,286.41	E. 1,629,794.32
NAD'27 GEO.	LAT-(N) 39.355496	LONG-(W) 80.809245
NAD'83 UTM (M)	N. 4,356,253.98	E. 516,449.74

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P.S. *C. Victor Moyers*
849

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NAD'27 GEO.	LAT-(N) 39.366187	LONG-(W) 80.815933
NAD'83 UTM (M)	N. 4,357,439.27	E. 515,871.09

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 314,282.15	E. 1,629,790.87
NAD'27 GEO.	LAT-(N) 39.355484	LONG-(W) 80.809256
NAD'83 UTM (M)	N. 4,356,252.66	E. 516,448.71

WELL TIES

ID	BEARING	DISTANCE
L1	N 64°39' E	1380.89'
L2	N 81°37' E	1592.40'

BUILD OUT DATA

ID	BEARING	DISTANCE
L3	N 70°28' E	847.04'
L4	S 24°49' E	4322.22'

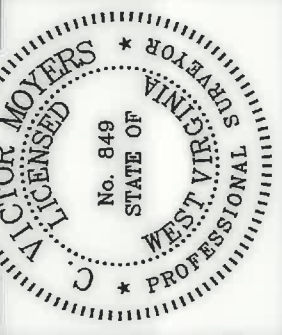
LATERAL

ID	BEARING	DISTANCE
L4	S 24°49' E	4322.22'

CHORD BEARING

CURVE	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH
C1	166.02'	285.56'	N 88°08' E	166.02'
C2	204.28'	478.96'	S 62°47' E	202.74'
C3	358.96'	776.02'	S 37°28' E	358.67'

AS-DRILLED TOTAL LATERAL LENGTH = 4327.57'



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

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

SCALE 1" = 1000'
DATE MAY 29, 20 19
REVISED _____, 20 ____
OPERATORS WELL NO. WEU4H6
API WELL NO. 47-095-02507
COUNTY PERMIT

COUNTY NAME _____
PERMIT _____

LEGEND

- LEASE LINE
- SURFACE LINE
- PROPOSED WELL LATERAL
- EXISTING WELL
- PLUGGED WELL
- STORAGE WELL
- CENTERVILLE, DIST. TAX MAP-PARCEL
- MCELROY DIST. TAX MAP-PARCEL
- WEST UNION DIST. WU-00-00
- WEST UNION DIST. M-00-00
- WEST UNION DIST. FENCE LINE

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

DESIGNATED AGENT JASON RANSON
ADDRESS 115 PROFESSIONAL PLACE
BRIDGEPORT, WV 26330

WEU4

WEU4H6

EQT PRODUCTION COMPANY

SURFACE OWNERSHIP

TAG	SURFACE OWNER	ACRES	T.M. - PAR.
A	DONNA PETER	113.4 ACRES±	TM C-16-22
B	EDWARD II & CAROLYN WHITE	40 ACRES±	TM M-21-38
C	EDWARD II & CAROLYN WHITE	12.5 ACRES±	TM M-21-39
D	CARL PERKINS	50.25 ACRES±	TM M-21-37
E	JAMES & KATHRYN McNULLITY	50.18 ACRES±	TM M-23-3.1
F	THOMAS & RICHARD MARTIN	28.99 ACRES±	TM M-21-36
G	MYRON & BETTY WHITE	14.88 ACRES±	TM WU-01-01
H	KENDRA (COTTRILL) WYKE	0.5 ACRES±	TM WU-01-08
I	JASON & JENNIFER BAGLEY	1.42 ACRES±	TM WU-01-10.1
J	JUDITH BAGLEY	10.09 ACRES±	TM WU-01-10
K	RICHARD & LISA HENDRICKSON	44.68 ACRES±	TM M-23-02
L	ANZANETTA DRAIN HRS	46.88 ACRES±	TM C-18-03
M	BRIAN W. PRAIT	23 ACRES±	TM M-21-41
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	CHASE & REBA BARTRUG	109.94 ACRES±	TM C-16-10
R	JEFFERY E. & ANITA L. HOOVER	24.84 ACRES±	TM C-16-16
S	RICHARD & YVONNE METCALF	61.57 ACRES±	TM C-16-17
T	CHRIS BAUM ET AL	56.84 ACRES±	TM C-16-23
U	PAUL WEEKLEY (LIFE)	5 ACRES±	TM C-16-28
V	PAUL WEEKLEY (LIFE)	18 ACRES±	TM C-16-27
W	EDWARD II & CAROLYN WHITE	16 ACRES±	TM M-21-40
X	ASIA CUMBERLEDGE	75.75 ACRES±	TM M-21-32
Y	BRUCE BOLAND	35.43 ACRES±	TM M-21-34
Z	MYRON & BETTY WHITE	15.15 ACRES±	TM M-23-07
AA	GORDON L. KEYS ET AL	2 ACRES±	TM C-16-24.2
BB	STONEWALL GAS COMPANY	60.6 ACRES±	TM C-16-29
CC	PAUL WEEKLEY (LIFE)	3.37 ACRES±	TM C-16-14
DD	CONRAD COSTILOW	46.17 ACRES±	TM C-16-14
EE	LESLIE MOORE ET AL	20.25 ACRES±	TM M-23-01
FF	COREY A. AND ANGELA BLINE	27.5 ACRES±	TM M-23-06
GG	BRYAN W. PRAIT	6.75 ACRES±	TM M-21-42
HH	RICHARD H. METCALF	.61 ACRES±	TM C-16-14.1
II	JOHN R. ANDERS, II	.09 ACRES±	TM C-16-14.2

AS-DRILLED TOTAL LATERAL LENGTH = 4927.57'

NOTES ON SURVEY

1. 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.
2. WELL SPOT CIRCLE (SHEET 1) AND TOPO MARK SCALE ARE 1" = 2000'
3. AS-DRILLED INFORMATION PROVIDED BY EQT.



Land & Energy Development

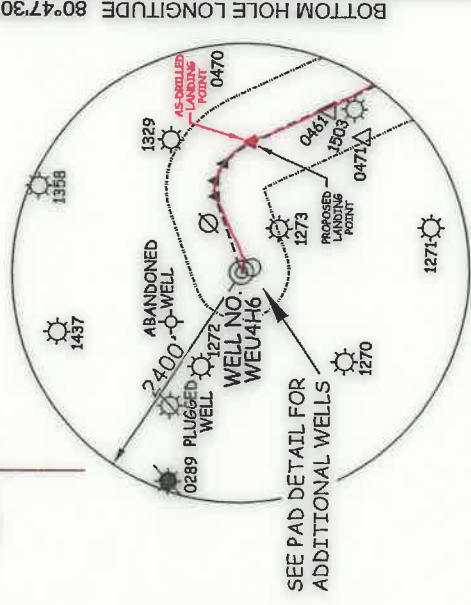
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PAD DETAIL



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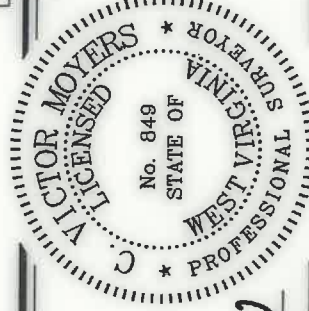


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NAD83 UTM (M)	N. 4,356,252.66	E. 516,448.71

ROYALTY OWNERS

ROXIE DAVIS ET AL	53 AC.±	LEASE NO. 126208
LUCIA A. ANCONA ET AL	16 AC.±	LEASE NO. 126205
BLACKROCK ENTERPRISES LLC ET AL	30 AC.±	LEASE NO. 126217
BEATRICE BRADY ET AL	47 AC.±	LEASE NO. 126207
HESTER B. BRITTON ET AL	44 AC.±	LEASE NO. 126187
JAMES T. McNULLY ET AL	30 AC.±	LEASE NO. 126278



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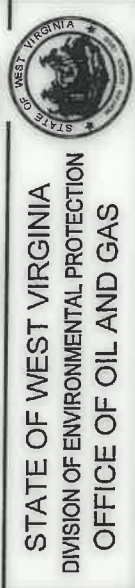
P.S. 849 *C. Victor Moyers*

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DATE MAY 29, 20 19
REVISED _____, 20 ____
OPERATORS WELL NO. WEU4H6
API _____
WELL NO. **47 - 095 - 02507**
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7701PWU4H6AD.dwg (512895)
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

WELL TYPE: OIL _____ GAS INJECTION _____ WASTE _____ LIQUID _____
"GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: PAD ELEVATION 1,079' WATERSHED _____ COUNTY TYLER
DISTRICT CENTERVILLE
SURFACE OWNER DONNA J. PETER
ROYALTY OWNER WACO OIL AND GAS INC. ET AL
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____
FRACTURE OR STIMULATE 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
CANONSBURG, PA 15317



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
COUNTY NAME _____
QUADRANGLE WEST UNION 7.5'
ACREAGE 113.40±
ACREAGE 152±
LEASE NO. 126129
TRIBUTARY OF CAMP MISTAKE RUN