Well Operator's Report of Well Work

EQT

Where energy meets innovation.

Well Number: 513920

API: 47 - 103 - 03043

Submission: ☐ Initial ☑ Amended

Notes: Correction to Production Cement Top (MD)

AK WS 03/22/16

03/25/2016

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

API 47 - 103 - 03043 County WETZEL District GRANT
Quad BIG RUN 7.5' Pad Name BIG192 Field/Pool Name
Farm name RICHARD DALLISON ET AL Well Number 513920
Operator (as registered with the OOG) EQT Production Company
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,375,409 Easting 535,935
Landing Point of Curve Northing 4,375,580 Easting 535,837
Bottom Hole Northing 4,377,627 Easting 535,173

Elevation (ft) 1452 GL Type of Well ■New □ Existing Type of Report □Interim ■Final

Permit Type □ Deviated □ Horizontal ■ Horizontal 6A □ Vertical Depth Type □ Deep ■ Shallow

Type of Operation □ Convert □ Deepen ■ Drill □ Plug Back □ Redrilling □ Rework ■ Stimulate

Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Secondary Recovery □ Solution Mining □ Storage □ Other ___

Type of Completion ■ Single □ Multiple Fluids Produced □ Brine ■Gas ■ NGL □ Oil □ Other ___
Drilled with □ Cable ■ Rotary

Drilling Media Surface hole ■ Air □ Mud □Fresh Water Intermediate hole ■ Air ■ Mud □ Fresh Water □ Brine
Production hole □ Air ■ Mud □ Fresh Water □ Brine

Mud Type(s) and Additive(s)
Water base Mud 13.5 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phophates, 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 12/08/2014 Date drilling commenced 02/05/2015 Date drilling ceased 05/13/2015
Date completion activities began 6/5/2015 Date completion activities ceased 6/17/2015
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 549',581',780' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2257',2370' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 743',804',919',1009',1240' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
DMH

03/25/2016

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API 47- 103 - 03043 Farm name RICHARD DALLISON ET AL Well number 513920

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"	50'	NEW	A-500 40LB/FT	NONE	Y
Surface	17.5"	13.375"	1004'	NEW	J-55 54.5LB/FT	668'	Y
Coal							
Intermediate 1	12.375" & 12.25"	9.625"	2749'	NEW	A-500 40LB/FT	2112'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	15,630'	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	61	15.6	1.18	71.98	0	8
Surface	CLASS A	955	15.6	1.20	972	0	8
Coal							
Intermediate 1	CLASS A / CLASS A	1065	15.6	1.18	1256.7	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS H / CLASS H	720/949	15.2/15.6	1.25/2.06	2855	3,241' MD	72
Tubing							

Drillers TD (ft) 15,630 Loggers TD (ft) N/A

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,046

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: 1,11,20

INTERMEDIATE- RAN AT LEAST EVERY 500' FEET

PRODUCTION- 267 Composite Centralizers. One on every joint from TD to 4,550' 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

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API 47- 103 - 03043 Farm name RICHARD DALLISON ET AL Well number 513920

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
						Please	See	Attached

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
Marcellus	7,633' TVD	7,973' MD	

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ■ Open Flow OIL TEST ■ Flow ☐ Pump

SHUT-IN PRESSURE Surface 1,995 psi Bottom Hole N/A psi DURATION OF TEST 88.5 hrs

OPEN FLOW	Gas	Oil	NGL	Water	GAS MEASURED BY
	10,607 mcfpd	N/A bpd	0 bpd	1326.6 bpd	☐ Estimated ■ Orifice ☐ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H_2S, ETC)
	0		0		

Please insert additional pages as applicable.

Drilling Contractor ALPHA HUNTER DRILLING (RIG 6)
Address P.O. BOX 430 City RENO State OH Zip 45773

Logging Company Phoenix Technology Services
Address 1805 Brittmoore Road City Houston State TX Zip 77043

Cementing Company NABORS ENERGY SERVICES
Address 2504 Smith Creek Road City WAYNESBURG State PA Zip 15370

Stimulating Company C&J Energy Services
Address 3990 Rogerdale City Houston State TX Zip 77042
Please insert additional pages as applicable.

Completed by Brad Maddox Telephone 412-395-7053
Signature [signature] Title Director of Drilling Date 12/9/2015

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

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API 47- 103 - 03043 Farm name RICHARD DALLISON ET AL Well number 513920

Drilling Contractor Savanna Drilling
Address 2204 Timberloch Place Suite 230 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 Baker Hughes
Address 837 Philippi Pike City Clarksburgh State WV Zip 26301

API 47 - 103 - 03043

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	783	783
SAND/SHALE	0	0	746	746
WASHIGNTON COAL	746	746	748	748
SAND/SHALE	748	748	807	807
COAL	807	807	817	817
SAND/SHALE	817	817	922	922
COAL	922	922	927	927
SAND/SHALE	927	927	1,012	1,012
COAL	1,012	1,012	1,022	1,022
SAND/SHALE	1,022	1,022	1,243	1,243
PITTSBURGH COAL	1,243	1,243	1,248	1,248
SAND/SHALE	1,248	1,248	2,444	2,444
MAXTON	2,444	2,444	2,484	2,484
BIG LIME	2,484	2,484	2,623	2,623
BIG INJUN	2,623	2,623	2,874	2,874
WEIR	2,874	2,874	3,082	3,082
GANTZ	3,082	3,082	3,108	3,108
50F	3,108	3,108	3,193	3,193
30F	3,193	3,193	3,310	3,310
GORDON	3,310	3,310	3,390	3,390
4TH	3,390	3,390	3,539	3,539
BAYARD	3,539	3,539	3,965	3,965
WARREN	3,965	3,965	4,117	4,117
SPEECHLEY	4,117	4,117	5,006	5,005
RILEY	5,006	5,005	5,641	5,640
BENSON	5,641	5,640	5,967	5,966
ALEXANDER	5,967	5,966	6,546	6,494
RHINESTREET	6,546	6,494	7,334	7,198
SONYEA	7,334	7,198	7,511	7,359
MIDDLESEX	7,511	7,359	7,577	7,414
GENESSEE	7,577	7,414	7,692	7,501
GENESEO	7,692	7,501	7,731	7,527
TULLY	7,731	7,527	7,766	7,548
HAMILTON	7,766	7,548	7,973	7,633
MARCELLUS	7,973	7,633	15,630	7,654

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API 47 - 103 - 03043

PHOENIX
TECHNOLOGY SERVICES

EQT Production - Marcellus

Wetzel County, WV
Wetzel County 513920
Well 513920

Main Wellbore

Design: 513920 As Drilled Surveys

Standard Survey Report

11 May, 2015

EQT
Where energy meets innovation.

03/25/2016

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Wetzel County 513920
Company:	EQT Production - Marcellus	TVD Reference:	KB@16 @ 1468.0usft
Project:	Wetzel County, WV	MD Reference:	KB@16 @ 1468.0usft
Site:	Wetzel County 513920	North Reference:	Grid
Well:	Well 513920	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513920 As Drilled Surveys		

Project Wetzel County, WV

Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		Using geodetic scale factor

Site Wetzel County 513920

Site Position:		Northing:	376,073.40 usft	Latitude:	39.53
From:	Map	Easting:	1 694 783.40 usft	Longitude:	-80.58
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.69 °

Well Well 513920

Well Position	+N/-S	0 0 usft	Northing:	376,073 40 usft	Latitude:	39 31' 38 983 N
	+E/-W	0 0 usft	Easting:	1 694 783 40 usft	Longitude:	80 34' 55 433 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	1 452 0 usft

Wellbore Main Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/13/2015	-8 32	67 07	52 545

Design 513920 As Drilled Surveys

Audit Notes:

Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	342 00

Survey Program Date 5/11/2015

From ()	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	5,995 0	513920 Gyrodata Gyros (Main Wellbore)	GYD_DP_MS	Gyrodata gyro-compassing and drop
0 00	15,630 0	513920 PHX MWD (Main Wellbore)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0 0	0 00	0 00	0 0	-1,468 0	0 0	0 0	0 0	0 00	0 00	0 00
103 0	0 04	81 78	103 0	-1,365 0	0 0	0 0	0 0	0 04	0 04	0 00
203 0	0 05	313 60	203 0	-1,265 0	0 0	0 0	0 0	0 08	0 01	-128 18
303 0	0 18	255 10	303 0	-1,165 0	0 0	-0 1	0 1	0 16	0 13	-58 50
403 0	0 22	223 00	403 0	-1 065 0	-0 2	-0.4	0 0	0 12	0 04	-32 10
503 0	0 07	224 33	503 0	-965 0	-0 3	-0 6	-0 1	0 15	-0 15	1 33
603 0	0 10	164 75	603 0	-865 0	-0 5	-0.6	-0.2	0.09	0.03	-59.58
703 0	0 08	137 86	703 0	-765 0	-0 6	-0.6	-0.4	0.05	-0.02	-26.89

03/25/2016

Database:		Local Co-ordinate Reference:	
Company:		TVD Reference:	
Project:		MD Reference:	
Site:		North Reference:	
Well:		Survey Calculation Method:	
Wellbore:			
Design:			

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
803 0	0 09	151.79	803 0	-665 0	-0.7	-0 5	-0.5	0 02	0 01	13 93
903 0	0 08	332.70	903.0	-565.0	-0.7	-0 5	-0.5	0 17	-0 01	-179 09
1,003.0	0.22	335.68	1,003.0	-465.0	-0.5	-0 6	-0 3	0 14	0 14	2 98
1,103 0	0 51	346.09	1,103.0	-365.0	0 1	-0 8	0 3	0 30	0 29	10.41
1,203 0	0 59	351.03	1,203.0	-265.0	1.1	-0.9	1 3	0 09	0 08	4.94
1,303.0	0.65	351.05	1,303 0	-165.0	2 1	-1.1	2.4	0.06	0.06	0.02
1,403.0	0.53	350.81	1,403.0	-65.0	3.1	-1.3	3.4	0 12	-0 12	-0.24
1,503 0	0 57	3.15	1,503.0	35.0	4.1	-1 3	4.3	0.12	0.04	12.34
1,603 0	0 59	358.32	1,603 0	135.0	5.1	-1 3	5 3	0 05	0 02	-4 83
1 703 0	0 56	358.30	1,703.0	235.0	6.1	-1 3	6 2	0 03	-0 03	-0 02
1,803 0	0 60	9 14	1,803 0	335.0	7 1	-1 3	7 2	0 12	0 04	10 84
1 903 0	0 69	2 68	1,903 0	435 0	8 2	-1 2	8 2	0 12	0 09	-6 46
2,003 0	0 53	2 75	2,002 9	534 9	9 3	-1.1	9 2	0 16	-0 16	0 07
2,103.0	0 52	5 78	2,102 9	634 9	10 2	-1 0	10 0	0 03	-0.01	3 03
2,203 0	0.61	5 76	2,202 9	734 9	11 2	-0 9	10 9	0 09	0 09	-0 02
2,303.0	0 81	348 58	2,302 9	834 9	12 4	-1.0	12.1	0 29	0 20	-17 18
2,403.0	1 24	334 48	2,402 9	934 9	14 1	-1 6	13 9	0 50	0 43	-14 10
2,503.0	1 81	330 55	2,502 9	1,034 9	16 4	-2 9	16 5	0 58	0 57	-3 93
2,603.0	2 16	333 58	2,602 8	1,134 8	19 5	-4 5	19 9	0.37	0 35	3 03
2,703.0	2.35	336 18	2,702 7	1,234 7	23 1	-6 2	23 8	0 22	0 19	2 60
2,803.0	2.39	335 42	2,802 7	1,334 7	26 8	-7 9	27 9	0 05	0 04	-0 76
2,903.0	1 90	333 42	2,902 6	1,434 6	30 2	-9 5	31 7	0 50	-0 49	-2 00
3,003.0	1 42	327 70	3,002 5	1,534 5	32 7	-10 9	34 5	0 51	-0 48	-5 72
3,103 0	0 94	325 05	3,102 5	1,634 5	34 5	-12 0	36 5	0 48	-0 48	-2 65
3,203.0	0.80	318 54	3,202 5	1,734 5	35 7	-12 9	37 9	0 17	-0 14	-6 51
3,303 0	0 49	323 72	3,302 5	1,834 5	36 5	-13 6	39.0	0 32	-0 31	5 18
3,403 0	0 46	317 44	3,402 5	1,934 5	37 2	-14 2	39 7	0 06	-0 03	-6 28
3,503 0	0 43	319.58	3,502 5	2,034 5	37 7	-14.7	40 4	0 03	-0 03	2 14
3,603 0	0 43	325 62	3,602 5	2,134 5	38 3	-15.1	41 1	0 05	0 00	6 04
3,703 0	0 48	326.95	3,702.5	2,234.5	39.0	-15 6	41.9	0.05	0 05	1 33
3,803 0	0 47	325.04	3,802.5	2,334.5	39.7	-16.0	42 7	0 02	-0 01	-1.91
3,903 0	0 49	326.59	3,902.5	2,434 5	40 4	-16.5	43.5	0 02	0 02	1.55
4,003 0	0 44	319.06	4,002 5	2,534 5	41 0	-17.0	44 3	0 08	-0 05	-7 53
4,103 0	0 43	320.65	4,102.5	2,634 5	41 6	-17.5	45 0	0 02	-0 01	1 59
4,203 0	0 31	294.14	4,202 5	2,734 5	42 0	-18.0	45 5	0 21	-0 12	-26 51
4,303 0	0 32	296.16	4,302 5	2,834.5	42 2	-18.5	45 9	0 01	0 01	2 02
4,403 0	0 34	294 57	4,402 5	2,934.5	42 5	-19.0	46 3	0 02	0 02	-1 59
4,503 0	0 44	292.24	4,502.5	3,034.5	42.8	-19 6	46 7	0 10	0 10	-2 33
4,603 0	0 56	288.73	4,602.5	3,134.5	43.1	-20.4	47 3	0 12	0 12	-3 51
4,703 0	0 59	288.51	4,702.5	3,234.5	43 4	-21 4	47 9	0 03	0 03	-0 22
4,803 0	0 65	287.00	4,802 5	3,334 5	43.7	-22 4	48 5	0 06	0 06	-1.51
4,903 0	0 61	290 81	4,902 5	3,434 5	44 1	-23 5	49 2	0 06	-0 04	3 81

03/25/2016

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Wetzel County 513920
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Project:	Wetzel County, WV	MD Reference:	KB@16 @ 1468.0usft
Site:	Wetzel County 513920	North Reference:	Grid
Well:	Well 513920	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513920 As Drilled Surveys		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,003.0	0.68	290.96	5,002.4	3,534.4	44.5	-24.5	49.9	0.07	0.07	0.15
5,103.0	0.67	287.12	5,102.4	3,634.4	44.9	-25.6	50.6	0.05	-0.01	-3.84
5,203.0	0.66	286.41	5,202.4	3,734.4	45.2	-26.7	51.2	0.01	-0.01	-0.71
5,303.0	0.70	287.64	5,302.4	3,834.4	45.5	-27.9	51.9	0.04	0.04	1.23
5,403.0	0.74	286.48	5,402.4	3,934.4	45.9	-29.1	52.6	0.04	0.04	-1.16
5,503.0	0.60	299.66	5,502.4	4,034.4	46.3	-30.1	53.4	0.21	-0.14	13.18
5,603.0	0.60	306.86	5,602.4	4,134.4	46.9	-31.0	54.2	0.08	0.00	7.20
5,703.0	0.66	300.07	5,702.4	4,234.4	47.5	-31.9	55.1	0.10	0.06	-6.79
5,803.0	0.76	294.92	5,802.4	4,334.4	48.1	-33.0	55.9	0.12	0.10	-5.15
5,903.0	0.77	296.94	5,902.4	4,434.4	48.7	-34.2	56.9	0.03	0.01	2.02
Gyro Tie In=5995' MD										
5,995.0	0.94	290.82	5,994.4	4,526.4	49.2	-35.5	57.8	0.21	0.18	-6.65
6,014.0	1.10	298.30	6,013.4	4,545.4	49.4	-35.8	58.0	1.09	0.84	39.37
KOP=6046' MD										
6,046.0	1.90	184.90	6,045.4	4,577.4	49.0	-36.1	57.7	7.95	2.50	-354.38
6,078.0	6.40	168.00	6,077.3	4,609.3	46.7	-35.8	55.5	14.42	14.06	-52.81
6,109.0	9.50	163.80	6,108.0	4,640.0	42.6	-34.7	51.2	10.17	10.00	-13.55
6,141.0	11.60	162.40	6,139.4	4,671.4	37.0	-33.0	45.3	6.61	6.56	-4.38
6,172.0	13.80	163.80	6,169.7	4,701.7	30.4	-31.0	38.5	7.17	7.10	4.52
6,204.0	16.70	165.40	6,200.5	4,732.5	22.3	-28.8	30.1	9.16	9.06	5.00
6,235.0	19.40	166.40	6,230.0	4,762.0	13.0	-26.5	20.5	8.77	8.71	3.23
6,267.0	21.60	166.10	6,260.0	4,792.0	2.1	-23.8	9.4	6.88	6.88	-0.94
6,298.0	24.20	166.20	6,288.5	4,820.5	-9.6	-20.9	-2.7	8.39	8.39	0.32
6,330.0	26.90	166.00	6,317.4	4,849.4	-23.0	-17.6	-16.4	8.44	8.44	-0.63
6,361.0	29.90	166.00	6,344.7	4,876.7	-37.3	-14.0	-31.1	9.68	9.68	0.00
6,393.0	32.30	166.00	6,372.1	4,904.1	-53.3	-10.0	-47.6	7.50	7.50	0.00
6,425.0	35.10	166.70	6,398.7	4,930.7	-70.6	-5.9	-65.3	8.83	8.75	2.19
6,456.0	38.20	168.00	6,423.6	4,955.6	-88.6	-1.8	-83.7	10.31	10.00	4.19
6,488.0	39.00	168.80	6,448.6	4,980.6	-108.2	2.2	-103.6	2.95	2.50	2.50
6,519.0	38.80	168.10	6,472.7	5,004.7	-127.3	6.1	-122.9	1.56	-0.65	-2.26
6,551.0	40.00	165.40	6,497.4	5,029.4	-147.0	10.8	-143.2	6.54	3.75	-8.44
6,583.0	42.00	163.80	6,521.6	5,053.6	-167.3	16.3	-164.1	7.06	6.25	-5.00
6,614.0	42.10	163.10	6,544.6	5,076.6	-187.2	22.3	-184.9	1.55	0.32	-2.26
6,645.0	41.20	163.70	6,567.8	5,099.8	-206.9	28.1	-205.5	3.18	-2.90	1.94
6,677.0	40.80	166.60	6,591.9	5,123.9	-227.2	33.5	-226.4	6.08	-1.25	9.06
6,709.0	40.50	169.70	6,616.2	5,148.2	-247.6	37.8	-247.2	6.38	-0.94	9.69
6,740.0	38.90	170.30	6,640.0	5,172.0	-267.1	41.2	-266.8	5.31	-5.16	1.94
6,772.0	36.00	168.90	6,665.4	5,197.4	-286.2	44.7	-286.0	9.44	-9.06	-4.38
6,803.0	32.40	169.00	6,691.1	5,223.1	-303.3	48.1	-303.3	11.61	-11.61	0.32
6,835.0	29.20	169.40	6,718.6	5,250.6	-319.4	51.2	-319.6	10.02	-10.00	1.25
6,866.0	27.00	169.30	6,745.9	5,277.9	-333.8	53.9	-334.1	7.10	-7.10	-0.32
6,898.0	23.80	169.70	6,774.8	5,306.8	-347.3	56.4	-347.7	10.01	-10.00	1.25
6,930.0	20.70	171.90	6,804.4	5,336.4	-359.2	58.3	-359.7	10.03	-9.69	6.88

03/25/2016

Database:	EDM 5000 1 S [illegible]	Local Co-ordinate Reference:	
Company:	[illegible]	TVD Reference:	
Project:		MD Reference:	
Site:		North Reference:	
Well:		Survey Calculation Method:	
Wellbore:	We		
Design:			

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,961 0	18 20	171.80	6,833 6	5,365.6	-369 4	59.8	-369.8	8.07	-8.06	-0.32
6,993.0	15 90	173.90	6,864.2	5,396.2	-378 7	61.0	-379.0	7.44	-7.19	6.56
7,024 0	13 70	179.30	6,894 2	5,426 2	-386.6	61.4	-386.7	8 37	-7.10	17 42
7,056.0	11 40	187.50	6,925.4	5,457.4	-393.6	61 1	-393.2	9.08	-7.19	25.63
7,087 0	9 70	198.40	6,955 9	5,487.9	-399.1	59 9	-398 0	8 43	-5 48	35 16
7,119 0	8 40	213 90	6,987 5	5,519 5	-403 6	57 7	-401 7	8 60	-4 06	48 44
7,151 0	8 20	236.80	7,019.2	5,551.2	-406 8	54 5	-403 7	10 28	-0 63	71 56
7,182 0	9 10	259 80	7,049 9	5,581 9	-408.4	50 2	-403 9	11 44	2 90	74 19
7,214 0	11 70	275 60	7,081 3	5 613 3	-408 5	44 5	-402 3	11 99	8 13	49 38
7,245 0	12 50	293 10	7,111 7	5,643 7	-406 9	38 3	-398 8	12 06	2 58	56 45
7,277 0	12 60	310 60	7,142 9	5 674 9	-403 3	32 4	-393 6	11 84	0 31	54 69
7 308 0	15 30	315 10	7,173 0	5 705 0	-398 2	27 0	-387 0	9 38	8 71	14 52
7 340 0	19 00	316.70	7,203.6	5,735.6	-391.4	20.4	-378.6	11.66	11.56	5 00
7,372 0	20 80	325.00	7,233 7	5,765.7	-383 0	13.6	-368.4	10.46	5.63	25.94
7 403 0	22 10	327.80	7,262.5	5,794.5	-373.5	7.3	-357.5	5.34	4.19	9.03
7 435 0	24 60	328.70	7,291 9	5,823 9	-362 7	0.7	-345 2	7 89	7 81	2 81
7 466 0	27 60	328.50	7,319.7	5,851.7	-351.1	-6.4	-331.9	9.68	9.68	-0 65
7 498 0	30 20	329.70	7,347.7	5,879.7	-337 8	-14 4	-316 8	8 32	8 13	3 75
7 530 0	31 70	331.90	7,375.2	5,907.2	-323.5	-22 4	-300 7	5 87	4 69	6 88
7 561 0	34 00	334.40	7,401.2	5,933.2	-308.5	-30 0	-284 1	8 61	7 42	8 06
7,593 0	36 50	335.50	7,427 3	5,959 3	-291 7	-37 8	-265 8	8 06	7 81	3 44
7,624 0	40 30	336.40	7,451 6	5,983.6	-274 1	-45 6	-246 6	12 39	12 26	2 90
7 656 0	43 20	336 70	7,475 5	6,007 5	-254 6	-54 1	-225 4	9 08	9 06	0 94
7 687 0	46 70	337.30	7,497 4	6,029.4	-234 4	-62 7	-203 6	11 37	11 29	1 94
7 719 0	49 60	338 70	7,518 8	6,050 8	-212 3	-71 6	-179 8	9 63	9 06	4 38
7,750 0	53 20	339 40	7,538 1	6,070 1	-189 7	-80 2	-155 6	11 75	11 61	2 26
7 782 0	56 60	340 00	7,556 5	6 088 5	-165 2	-89 3	-129 5	10 74	10 63	1 88
7,814 0	60 30	341 20	7,573 3	6,105 3	-139 4	-98.4	-102.2	12.00	11.56	3 75
7,845 0	63 20	342 90	7,587 9	6 119 9	-113 5	-106.8	-74.9	10.53	9.35	5.48
7,877 0	66 00	344 30	7,601 7	6,133 7	-85 7	-114.9	-46.0	9 60	8 75	4 38
7,908 0	68 90	344 70	7,613 6	6 145 6	-58 1	-122.6	-17.4	9.43	9.35	1.29
7 939 0	72 30	344 60	7,623 9	6 155 9	-30 0	-130 3	11 8	10 97	10 97	-0 32
7,971 0	75 30	344 30	7,632 8	6,164 8	-0 4	-138.6	42.5	9 42	9.38	-0 94
8 003 0	77 50	343 60	7,640 3	6,172 3	29 5	-147.2	73.6	7.20	6 88	-2.19
8,034 0	80 40	342 70	7,646 2	6 178 2	58 6	-156 0	104 0	9 78	9 35	-2 90
8,066 0	85 20	342 70	7,650 3	6,182 3	89 0	-165 4	135 7	15 00	15.00	0 00
LP=8097' MD/ 7652' TVD										
8,097 0	89 00	343 00	7,651.8	6,183.8	118 5	-174 5	166 7	12 30	12 26	0 97
8 150 0	89 60	342.40	7,652 5	6,184 5	169 1	-190.3	219.7	1.60	1.13	-1.13
8 214 0	89 30	341 00	7,653 1	6,185.1	229 9	-210.4	283.7	2.24	-0.47	-2.19
8,276 0	89 40	341 70	7,653 8	6,185 8	288.6	-230 2	345 7	1 14	0 16	1.13
Deepest Point of WELL=8340' MD/ 7664' TVD										
8,340 0	90 40	342 30	7,653 9	6,185 9	349 5	-250 0	409 6	1 82	1 56	0 94

03/25/2016

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Wetzel County 513920
Company:	EQT Production - Marcellus	TVD Reference:	KB@16 @ 1488.0usft
Project:	Wetzel County, WV	MD Reference:	KB@16 @ 1488.0usft
Site:	Wetzel County 513920	North Reference:	Grid
Well:	Well 513920	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513920 As Drilled Surveys		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,403.0	91.30	341.70	7,653.0	6,185.0	409.4	-269.5	472.6	1.72	1.43	-0.95
8,466.0	91.70	341.20	7,651.3	6,183.3	469.1	-289.5	535.6	1.02	0.63	-0.79
8,529.0	91.80	341.70	7,649.4	6,181.4	528.8	-309.5	598.6	0.81	0.16	0.79
8,592.0	91.50	343.70	7,647.6	6,179.6	588.9	-328.3	661.6	3.21	-0.48	3.17
8,655.0	91.40	343.60	7,646.0	6,178.0	649.4	-346.0	724.5	0.22	-0.16	-0.16
8,719.0	90.60	344.20	7,644.9	6,176.9	710.8	-363.7	788.5	1.56	-1.25	0.94
8,782.0	90.20	345.00	7,644.4	6,176.4	771.6	-380.5	851.4	1.42	-0.63	1.27
8,845.0	90.10	343.80	7,644.3	6,176.3	832.3	-397.4	914.3	1.91	-0.16	-1.90
8,908.0	90.10	343.50	7,644.1	6,176.1	892.7	-415.1	977.3	0.48	0.00	-0.48
8,971.0	90.00	343.00	7,644.1	6,176.1	953.0	-433.3	1,040.3	0.81	-0.16	-0.79
9,034.0	89.90	342.10	7,644.1	6,176.1	1,013.1	-452.2	1,103.3	1.44	-0.16	-1.43
9,097.0	90.80	343.60	7,643.8	6,175.8	1,073.3	-470.8	1,166.3	2.78	1.43	2.38
9,160.0	91.20	344.00	7,642.7	6,174.7	1,133.8	-488.3	1,229.2	0.90	0.63	0.63
9,223.0	91.00	342.40	7,641.5	6,173.5	1,194.1	-506.5	1,292.2	2.56	-0.32	-2.54
9,287.0	90.40	342.80	7,640.7	6,172.7	1,255.2	-525.7	1,356.2	1.13	-0.94	0.63
9,349.0	90.30	343.20	7,640.3	6,172.3	1,314.5	-543.8	1,418.2	0.67	-0.16	0.65
9,413.0	90.10	342.30	7,640.1	6,172.1	1,375.6	-562.8	1,482.2	1.44	-0.31	-1.41
9,476.0	89.80	342.60	7,640.1	6,172.1	1,435.7	-581.8	1,545.2	0.67	-0.48	0.48
9,539.0	89.50	341.70	7,640.5	6,172.5	1,495.6	-601.1	1,608.2	1.51	-0.48	-1.43
9,602.0	90.50	342.80	7,640.5	6,172.5	1,555.6	-620.3	1,671.2	2.36	1.59	1.75
9,665.0	90.90	343.80	7,639.7	6,171.7	1,616.0	-638.4	1,734.2	1.71	0.63	1.59
9,728.0	91.00	343.80	7,638.7	6,170.7	1,676.5	-656.0	1,797.1	0.16	0.16	0.00
9,791.0	90.60	343.40	7,637.8	6,169.8	1,736.9	-673.8	1,860.1	0.90	-0.63	-0.63
9,854.0	90.40	343.30	7,637.3	6,169.3	1,797.2	-691.8	1,923.1	0.35	-0.32	-0.16
9,917.0	90.30	343.10	7,636.9	6,168.9	1,857.5	-710.0	1,986.0	0.35	-0.16	-0.32
9,980.0	89.90	342.30	7,636.8	6,168.8	1,917.7	-728.8	2,049.0	1.42	-0.63	-1.27
10,043.0	89.50	341.40	7,637.1	6,169.1	1,977.6	-748.4	2,112.0	1.56	-0.63	-1.43
10,106.0	89.60	341.50	7,637.6	6,169.6	2,037.3	-768.4	2,175.0	0.22	0.16	0.16
10,169.0	90.10	341.00	7,637.8	6,169.8	2,096.9	-788.7	2,238.0	1.12	0.79	-0.79
10,232.0	91.20	342.90	7,637.0	6,169.0	2,156.8	-808.2	2,301.0	3.48	1.75	3.02
10,296.0	91.70	343.60	7,635.4	6,167.4	2,218.1	-826.6	2,365.0	1.34	0.78	1.09
10,358.0	91.80	344.80	7,633.5	6,165.5	2,277.7	-843.5	2,426.9	1.94	0.16	1.94
10,421.0	90.50	344.90	7,632.3	6,164.3	2,338.5	-860.0	2,489.8	2.07	-2.06	0.16
10,484.0	90.10	344.20	7,631.9	6,163.9	2,399.2	-876.7	2,552.8	1.28	-0.63	-1.11
10,548.0	89.90	344.00	7,631.9	6,163.9	2,460.8	-894.3	2,616.7	0.44	-0.31	-0.31
10,611.0	89.70	343.70	7,632.2	6,164.2	2,521.3	-911.8	2,679.7	0.57	-0.32	-0.48
10,674.0	89.30	343.80	7,632.7	6,164.7	2,581.8	-929.4	2,742.6	0.65	-0.63	0.16
10,737.0	88.90	343.30	7,633.7	6,165.7	2,642.2	-947.3	2,805.6	1.02	-0.63	-0.79
10,800.0	89.50	344.20	7,634.6	6,166.6	2,702.7	-964.9	2,868.6	1.72	0.95	1.43
10,863.0	90.00	344.60	7,634.9	6,166.9	2,763.4	-981.8	2,931.5	1.02	0.79	0.63
10,926.0	89.90	343.00	7,634.9	6,166.9	2,823.9	-999.4	2,994.5	2.54	-0.16	-2.54
10,990.0	89.80	342.10	7,635.1	6,167.1	2,884.9	-1,018.6	3,058.5	1.41	-0.16	-1.41
11,053.0	90.60	342.10	7,634.9	6,166.9	2,944.9	-1,038.0	3,121.5	1.27	1.27	0.00

03/25/2016

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Wetzel County 513920
Company:	EQT Production - Marcellus	TVD Reference:	KB@16 @ 1468.0usft
Project:	Wetzel County, WV	MD Reference:	KB@16 @ 1468.0usft
Site:	Wetzel County 513920	North Reference:	Grid
Well:	Well 513920	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513920 As Drilled Surveys		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,116.0	91.40	341.80	7,633.8	6,165.8	3,004.8	-1,057.5	3,184.5	1.36	1.27	-0.48
11,179.0	91.20	342.00	7,632.3	6,164.3	3,064.6	-1,077.1	3,247.5	0.45	-0.32	0.32
11,243.0	90.70	341.60	7,631.3	6,163.3	3,125.4	-1,097.0	3,311.4	1.00	-0.78	-0.63
11,306.0	90.40	341.50	7,630.7	6,162.7	3,185.2	-1,117.0	3,374.4	0.50	-0.48	-0.16
11,369.0	90.00	342.00	7,630.4	6,162.4	3,245.0	-1,136.7	3,437.4	1.02	-0.63	0.79
11,432.0	89.70	341.20	7,630.6	6,162.6	3,304.8	-1,156.6	3,500.4	1.36	-0.48	-1.27
11,495.0	90.90	342.30	7,630.3	6,162.3	3,364.6	-1,176.3	3,563.4	2.58	1.90	1.75
11,558.0	91.20	343.00	7,629.1	6,161.1	3,424.7	-1,195.1	3,626.4	1.21	0.48	1.11
11,621.0	91.00	343.10	7,627.9	6,159.9	3,485.0	-1,213.5	3,689.4	0.35	-0.32	0.16
11,684.0	90.60	342.90	7,627.0	6,159.0	3,545.2	-1,231.9	3,752.4	0.71	-0.63	-0.32
11,747.0	90.30	342.30	7,626.5	6,158.5	3,605.3	-1,250.7	3,815.4	1.06	-0.48	-0.95
11,810.0	90.10	342.10	7,626.3	6,158.3	3,665.3	-1,270.0	3,878.4	0.45	-0.32	-0.32
11,873.0	89.40	343.10	7,626.6	6,158.6	3,725.4	-1,288.8	3,941.4	1.94	-1.11	1.59
11,936.0	89.70	343.30	7,627.1	6,159.1	3,785.7	-1,307.0	4,004.4	0.57	0.48	0.32
12,000.0	89.20	342.70	7,627.7	6,159.7	3,846.9	-1,325.7	4,068.3	1.22	-0.78	-0.94
12,063.0	90.40	344.10	7,627.9	6,159.9	3,907.3	-1,343.7	4,131.3	2.93	1.90	2.22
12,125.0	91.10	344.30	7,627.1	6,159.1	3,967.0	-1,360.6	4,193.3	1.17	1.13	0.32
12,188.0	91.00	343.60	7,626.0	6,158.0	4,027.5	-1,378.0	4,256.2	1.12	-0.16	-1.11
12,251.0	91.40	342.60	7,624.6	6,156.6	4,087.8	-1,396.3	4,319.2	1.71	0.63	-1.59
12,315.0	91.60	341.20	7,623.0	6,155.0	4,148.6	-1,416.2	4,383.2	2.21	0.31	-2.19
12,378.0	91.80	342.50	7,621.1	6,153.1	4,208.4	-1,435.8	4,446.1	2.09	0.32	2.06
12,441.0	91.60	342.40	7,619.2	6,151.2	4,268.5	-1,454.8	4,509.1	0.35	-0.32	-0.16
12,504.0	90.20	343.60	7,618.2	6,150.2	4,328.7	-1,473.2	4,572.1	2.93	-2.22	1.90
12,567.0	90.20	343.60	7,618.0	6,150.0	4,389.1	-1,491.0	4,635.1	0.00	0.00	0.00
12,630.0	90.30	342.60	7,617.7	6,149.7	4,449.4	-1,509.3	4,698.1	1.60	0.16	-1.59
12,693.0	90.60	343.20	7,617.2	6,149.2	4,509.6	-1,527.9	4,761.0	1.06	0.48	0.95
12,756.0	90.40	344.00	7,616.7	6,148.7	4,570.1	-1,545.6	4,824.0	1.31	-0.32	1.27
12,819.0	90.40	344.20	7,616.3	6,148.3	4,630.6	-1,562.9	4,887.0	0.32	0.00	0.32
12,883.0	90.20	342.90	7,615.9	6,147.9	4,692.0	-1,581.0	4,950.9	2.06	-0.31	-2.03
12,946.0	90.20	343.50	7,615.7	6,147.7	4,752.3	-1,599.2	5,013.9	0.95	0.00	0.95
13,009.0	89.90	342.40	7,615.6	6,147.6	4,812.6	-1,617.7	5,076.9	1.81	-0.48	-1.75
13,073.0	90.20	343.30	7,615.6	6,147.6	4,873.7	-1,636.6	5,140.9	1.48	0.47	1.41
13,137.0	90.20	343.10	7,615.4	6,147.4	4,935.0	-1,655.1	5,204.9	0.31	0.00	-0.31
13,200.0	89.90	341.80	7,615.3	6,147.3	4,995.0	-1,674.1	5,267.9	2.12	-0.48	-2.06
13,264.0	89.90	341.60	7,615.4	6,147.4	5,055.8	-1,694.2	5,331.9	0.31	0.00	-0.31
13,327.0	90.00	342.60	7,615.5	6,147.5	5,115.8	-1,713.5	5,394.9	1.60	0.16	1.59
13,391.0	90.10	343.40	7,615.4	6,147.4	5,177.0	-1,732.2	5,458.9	1.26	0.16	1.25
13,454.0	90.10	342.60	7,615.3	6,147.3	5,237.2	-1,750.7	5,521.9	1.27	0.00	-1.27
13,518.0	91.20	344.20	7,614.6	6,146.6	5,298.5	-1,768.9	5,585.8	3.03	1.72	2.50
13,581.0	91.80	343.90	7,612.9	6,144.9	5,359.1	-1,786.3	5,648.8	1.06	0.95	-0.48
13,645.0	92.10	344.00	7,610.8	6,142.8	5,420.6	-1,803.9	5,712.7	0.49	0.47	0.16
13,708.0	90.90	343.20	7,609.1	6,141.1	5,481.0	-1,821.7	5,775.7	2.29	-1.90	-1.27

03/25/2016

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Wetzel County 513920
Company:	EQT Production - Marcellus	TVD Reference:	KB@16 @ 1468.0usft
Project:	Wetzel County, WV	MD Reference:	KB@16 @ 1468.0usft
Site:	Wetzel County 513920	North Reference:	Grid
Well:	Well 513920	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513920 As Drilled Surveys		

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,772.0	89.90	341.30	7,608.7	6,140.7	5,541.9	-1,841.2	5,839.7	3.35	-1.56	-2.97
13,835.0	90.10	341.70	7,608.7	6,140.7	5,601.7	-1,861.2	5,902.7	0.71	0.32	0.63
13,899.0	90.80	343.10	7,608.2	6,140.2	5,662.7	-1,880.6	5,966.6	2.45	1.09	2.19
13,962.0	91.20	343.20	7,607.1	6,139.1	5,723.0	-1,898.8	6,029.6	0.65	0.63	0.16
14,026.0	91.00	343.10	7,605.8	6,137.8	5,784.2	-1,917.4	6,093.6	0.35	-0.31	-0.16
14,089.0	91.30	344.30	7,604.6	6,136.6	5,844.6	-1,935.1	6,156.6	1.96	0.48	1.90
14,152.0	91.50	345.60	7,603.0	6,135.0	5,905.5	-1,951.4	6,219.5	2.09	0.32	2.06
14,216.0	90.40	344.70	7,602.0	6,134.0	5,967.3	-1,967.8	6,283.3	2.22	-1.72	-1.41
14,279.0	89.90	344.30	7,601.8	6,133.8	6,028.0	-1,984.6	6,346.3	1.02	-0.79	-0.63
14,343.0	89.20	344.60	7,602.3	6,134.3	6,089.7	-2,001.8	6,410.2	1.19	-1.09	0.47
14,406.0	89.10	344.50	7,603.2	6,135.2	6,150.4	-2,018.6	6,473.2	0.22	-0.16	-0.16
14,470.0	90.30	344.60	7,603.6	6,135.6	6,212.1	-2,035.6	6,537.1	1.88	1.88	0.16
14,533.0	91.30	344.50	7,602.7	6,134.7	6,272.8	-2,052.4	6,600.0	1.60	1.59	-0.16
14,596.0	90.60	344.10	7,601.7	6,133.7	6,333.4	-2,069.5	6,663.0	1.28	-1.11	-0.63
14,660.0	90.80	343.00	7,600.9	6,132.9	6,394.8	-2,087.6	6,726.9	1.75	0.31	-1.72
14,723.0	90.60	341.60	7,600.1	6,132.1	6,454.8	-2,106.7	6,789.9	2.24	-0.32	-2.22
14,786.0	90.40	340.40	7,599.5	6,131.5	6,514.4	-2,127.2	6,852.9	1.93	-0.32	-1.90
14,849.0	90.30	340.60	7,599.2	6,131.2	6,573.8	-2,148.3	6,915.9	0.35	-0.16	0.32
14,912.0	90.60	342.10	7,598.7	6,130.7	6,633.5	-2,168.4	6,978.9	2.43	0.48	2.38
14,975.0	90.60	341.70	7,598.0	6,130.0	6,693.3	-2,188.0	7,041.9	0.63	0.00	-0.63
15,038.0	91.00	341.90	7,597.1	6,129.1	6,753.2	-2,207.7	7,104.9	0.71	0.63	0.32
15,101.0	91.40	342.00	7,595.8	6,127.8	6,813.1	-2,227.2	7,167.9	0.65	0.63	0.16
15,165.0	90.10	341.40	7,595.0	6,127.0	6,873.8	-2,247.3	7,231.8	2.24	-2.03	-0.94
15,228.0	89.70	342.20	7,595.1	6,127.1	6,933.7	-2,266.9	7,294.8	1.42	-0.63	1.27
15,291.0	89.90	341.60	7,595.3	6,127.3	6,993.6	-2,286.5	7,357.8	1.00	0.32	-0.95
15,354.0	90.20	342.10	7,595.2	6,127.2	7,053.4	-2,306.1	7,420.8	0.93	0.48	0.79
15,417.0	90.50	343.10	7,594.9	6,126.9	7,113.5	-2,325.0	7,483.8	1.66	0.48	1.59
15,480.0	90.60	343.60	7,594.3	6,126.3	7,173.9	-2,343.0	7,546.8	0.81	0.16	0.79
15,543.0	91.30	343.70	7,593.2	6,125.2	7,234.3	-2,360.8	7,609.8	1.12	1.11	0.16
Final Survey=15572' MD/7585' TVD										
15,572.0	91.60	343.60	7,592.5	6,124.5	7,262.2	-2,368.9	7,638.8	1.09	1.03	-0.34
Projection to TD=15630' MD/ 7591' TVD										
15,630.0	91.60	343.60	7,590.9	6,122.9	7,317.8	-2,385.3	7,696.7	0.00	0.00	0.00

03/25/2016

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Site Wetzel County 513920
Company:	EQT Production - Marcellus	**TVD Reference:**	KB@16 @ 1468.0usft
Project:	Wetzel County, WV	**MD Reference:**	KB@16 @ 1468.0usft
Site:	Wetzel County 513920	**North Reference:**	Grid
Well:	Well 513920	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513920 As Drilled Surveys		

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,995.0	5,994.4	49.2	-35.5	Gyro Tie In=5995' MD
6,046.0	6,045.4	49.0	-36.1	KOP=6046' MD
8,097.0	7,651.8	118.5	-174.5	LP=8097' MD/ 7652' TVD
8,340.0	7,653.9	349.5	-250.0	Deepest Point of WEll=8340' MD/ 7654' TVD
15,572.0	7,592.5	7,262.2	-2,368.9	Final Survey=15572' MD/7593' TVD
15,630.0	7,590.9	7,317.8	-2,385.3	Projection to TD=15630' MD/ 7591' TVD

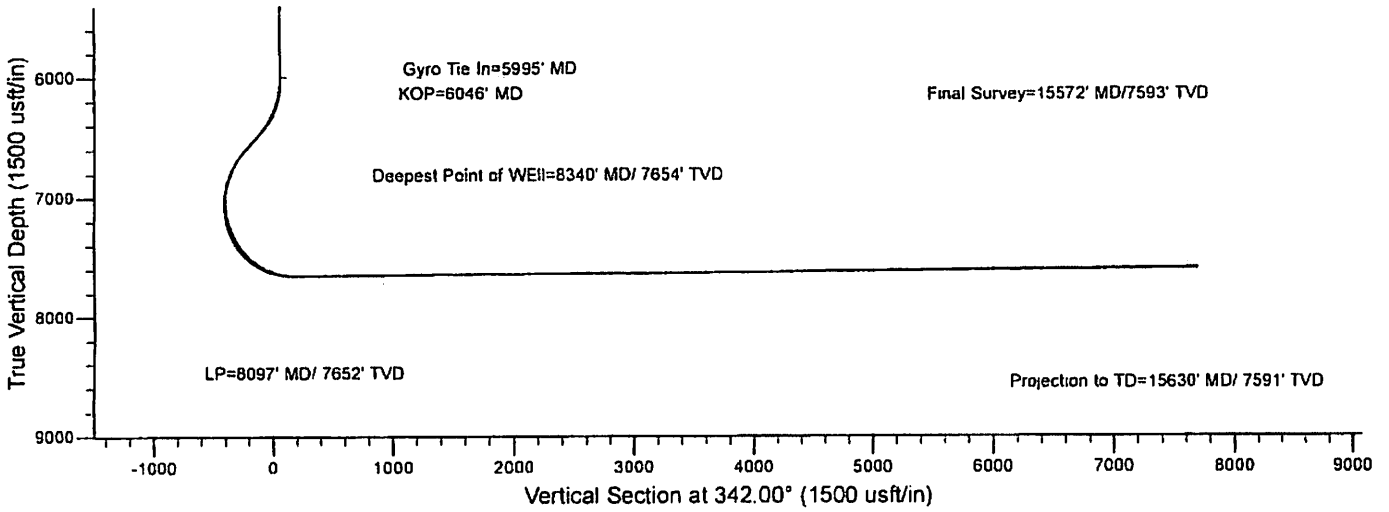
Checked By _____ Approved By _____ Date _____

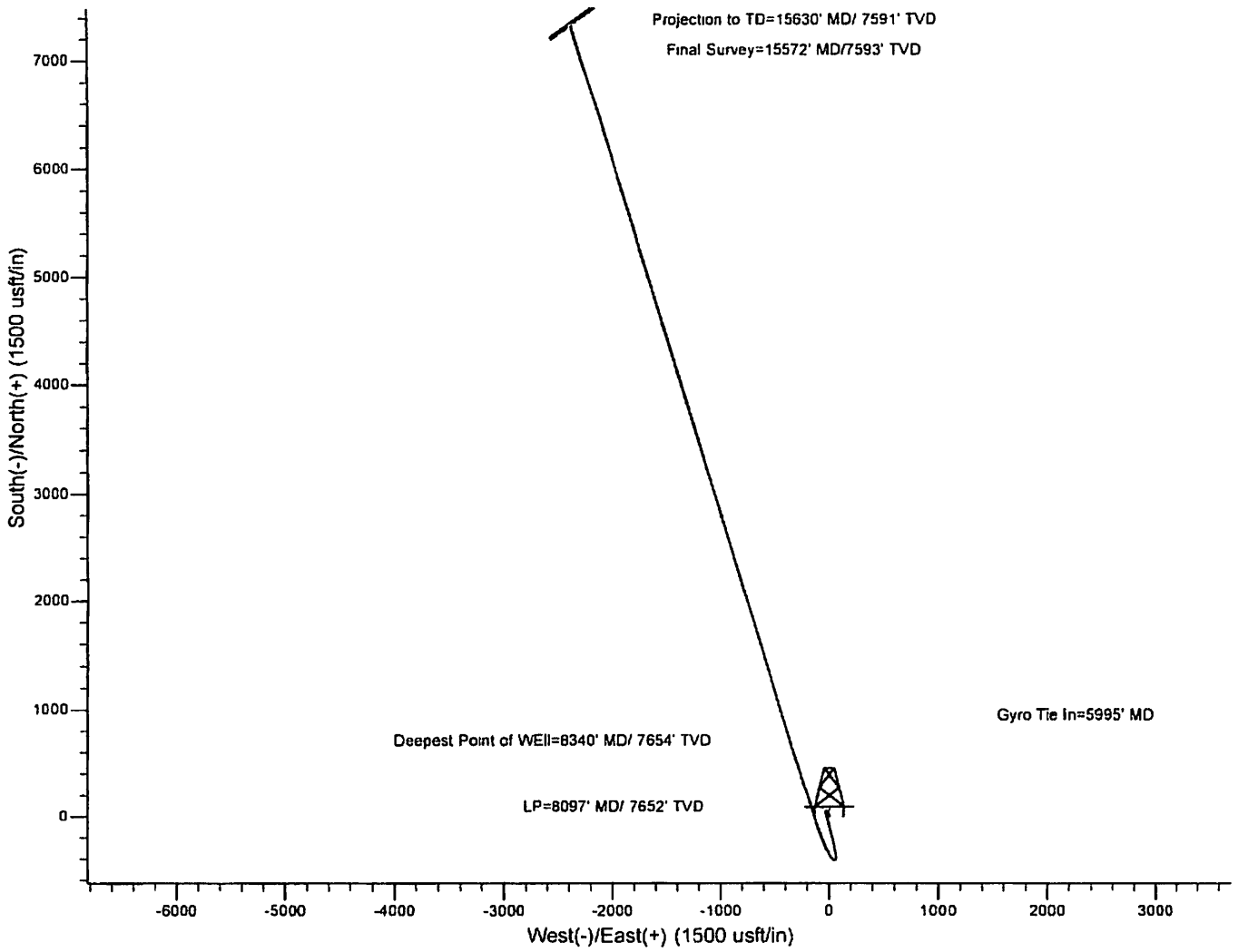
03/25/2016

PHOENIX
TECHNOLOGY SERVICES

EQT Production - Marcellus

Project: Wetzel County, WV
Site: Wetzel County 513920
Well: Well 513920
Wellbore: Main Wellbore
Design: 513920 As Drilled Surveys





03/25/2016

513920 - 47-103-03043-0000 - 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	6/5/2015	11.9	6,654.00	8,023.00	5,854.00	0	1379	0
1	6/5/2015	78.6	8,488.00	8,803.00	4,022.00	201,200	6096	0
2	6/5/2015	77.1	8,376.00	8,756.00	4,610.00	201,200	6454	0
3	6/6/2015	76	8,112.00	8,328.00	5,024.00	201,600	6288	0
4	6/6/2015	76.3	8,192.00	8,694.00	4,933.00	201,100	6094	0
5	6/6/2015	83.2	8,333.00	8,712.00	4,649.00	201,800	5843	0
6	6/6/2015	86.3	8,211.00	8,756.00	5,214.00	200,400	5988	0
7	6/7/2015	81.6	8,298.00	8,769.00	4,830.00	201,400	5923	0
8	6/7/2015	80.6	8,148.00	8,573.00	4,795.00	201,200	5596	0
9	6/7/2015	83.1	8,372.00	8,993.00	4,876.00	201,800	5575	0
10	6/7/2015	77.3	8,482.00	9,407.00	4,887.00	201,100	7148	0
11	6/8/2015	77.3	8,485.00	9,329.00	4,425.00	199,700	6262	0
12	6/8/2015	78.3	8,352.00	9,000.00	4,585.00	200,300	5857	0
13	6/8/2015	84.1	8,098.00	8,570.00	4,978.00	200,100	5599	0
14	6/8/2015	83.2	8,329.00	8,817.00	4,899.00	200,700	5812	0
15	6/8/2015	82.2	8,348.00	8,761.00	4,847.00	201,100	5717	0
16	6/9/2015	75.3	8,488.00	9,320.00	5,497.00	198,300	9381	0
17	6/10/2015	79.80	8,672.00	9,105.00	5,056	200,400	5,411	0
18	6/10/2015	83.10	8,633.00	9,290.00	5,574	199,600	5,394	0
19	6/10/2015	90.40	8,969.00	9,397.00	5,701	199,500	5,551	0
20	6/10/2015	90.90	9,066.00	9,446.00	5,502	200,300	5,686	0
21	6/11/2015	92.30	9,069.00	9,449.00	5,690	203,000	5,436	0
22	6/11/2015	85.50	8,851.00	9,312.00	5,930	200,700	5,083	0
23	6/11/2015	99.7	8,851.00	9,488.00	5,683.00	200,200	7221	0
24	6/11/2015	92.1	9,067.00	9,504.00	5,698.00	200,100	5419	0
25	6/12/2015	100.4	8,655.00	9,199.00	5,309.00	199,100	5287	0
26	6/12/2015	94.5	8,571.00	9,187.00	5,503.00	201,000	5639	0
27	6/12/2015	100.9	8,451.00	8,801.00	4,986.00	199,700	5605	0
28	6/13/2015	100.4	8,925.00	9,293.00	4,944.00	199,600	5387	0
29	6/13/2015	95.5	8,456.00	8,646.00	4,689.00	202,100	5416	0
30	6/13/2015	96.5	8,724.00	9,502.00	5,097.00	200,400	5213	0
31	6/13/2015	99.1	8,618.00	9,395.00	5,398.00	201,600	5461	0
32	6/13/2015	100.3	8,636.00	9,495.00	5,632.00	199,700	5221	0
33	6/14/2015	100.5	8,551.00	8,734.00	5,469.00	203,900	5106	0
34	6/14/2015	100.1	8,582.00	8,918.00	5,255.00	202,500	5008	0
35	6/14/2015	98.7	8,369.00	9,169.00	4,870.00	201,300	5327	0
36	6/14/2015	86.4	8,279.00	9,111.00	5,499.00	204,400	5194	0
37	6/14/2015	100.1	8,353.00	8,530.00	5,066.00	203,000	5279	0
38	6/14/2015	100.7	8,427.00	9,019.00	5,180.00	199,000	5012	0
39	6/15/2015	101.60	8,241.00	8,598.00	5,047	198,800	5,306	0
40	6/15/2015	100.80	8,591.00	8,956.00	4,994	199,700	5,053	0
41	6/15/2015	100.9	8,244.00	8,667.00	4,611.00	200,400	5217	0
42	6/15/2015	100.7	8,163.00	8,395.00	4,875.00	199,100	5279	0
43	6/15/2015	101.7	8,122.00	8,564.00	5,681.00	203,800	5196	0
44	6/15/2015	101.7	8,056.00	9,052.00	5,654.00	201,200	5210	0
45	6/15/2015	105.20	8,404.00	8,624.00	5,638	199,400	5,148	0
46	6/16/2015	102.20	8,438.00	8,982.00	5,482	200,500	5,084	0
47	6/16/2015	101.90	8,141.00	8,471.00	5,324	200,400	4,986	0
48	6/16/2015	101.50	8,161.00	8,778.00	5,444	199,600	4,997	0
49	6/16/2015	100.40	8,066.00	8,665.00	5,409	200,000	5,098	0
50	6/16/2015	101.90	8,103.00	9,106.00	5,439	201,600	5,094	0

03/25/2016

513920 - 47-103-03043-0000 - Perforations					
Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	6/2/2015	15,628.00	15,630.00	10	MARCELLUS
1	6/5/2015	15,484.00	15,576.00	32	MARCELLUS
2	6/5/2015	15,334.00	15,452.00	40	MARCELLUS
3	6/6/2015	15,184.00	15,306.00	40	MARCELLUS
4	6/6/2015	15,034.00	15,156.00	40	MARCELLUS
5	6/6/2015	14,882.00	15,006.00	40	MARCELLUS
6	6/6/2015	14,734.00	14,856.00	40	MARCELLUS
7	6/6/2015	14,584.00	14,706.00	40	MARCELLUS
8	6/7/2015	14,436.00	14,554.00	40	MARCELLUS
9	6/7/2015	14,284.00	14,406.00	40	MARCELLUS
10	6/7/2015	14,134.00	14,256.00	40	MARCELLUS
11	6/7/2015	13,984.00	14,106.00	40	MARCELLUS
12	6/8/2015	13,834.00	13,956.00	40	MARCELLUS
13	6/8/2015	13,684.00	13,806.00	40	MARCELLUS
14	6/8/2015	13,534.00	13,656.00	40	MARCELLUS
15	6/8/2015	13,384.00	13,506.00	40	MARCELLUS
16	6/9/2015	13,234.00	13,356.00	40	MARCELLUS
17	6/10/2015	13,084.00	13,206.00	40	MARCELLUS
18	6/10/2015	12,934.00	13,054.00	40	MARCELLUS
19	6/10/2015	12,784.00	12,904.00	40	MARCELLUS
20	6/10/2015	12,634.00	12,754.00	40	MARCELLUS
21	6/11/2015	12,484.00	12,606.00	40	MARCELLUS
22	6/11/2015	12,334.00	12,452.00	40	MARCELLUS
23	6/11/2015	12,184.00	12,306.00	40	MARCELLUS
24	6/11/2015	12,034.00	12,156.00	40	MARCELLUS
25	6/12/2015	11,884.00	12,004.00	40	MARCELLUS
26	6/12/2015	11,734.00	11,854.00	40	MARCELLUS
27	6/12/2015	11,584.00	11,706.00	40	MARCELLUS
28	6/12/2015	11,432.00	11,554.00	40	MARCELLUS
29	6/13/2015	11,284.00	11,406.00	40	MARCELLUS
30	6/13/2015	11,134.00	11,254.00	40	MARCELLUS
31	6/13/2015	10,984.00	11,104.00	40	MARCELLUS
32	6/13/2015	10,834.00	10,956.00	40	MARCELLUS
33	6/13/2015	10,684.00	10,806.00	40	MARCELLUS
34	6/14/2015	10,534.00	10,656.00	40	MARCELLUS
35	6/14/2015	10,386.00	10,504.00	40	MARCELLUS
36	6/14/2015	10,234.00	10,354.00	40	MARCELLUS
37	6/14/2015	10,084.00	10,204.00	40	MARCELLUS
38	6/14/2015	9,934.00	10,054.00	40	MARCELLUS
39	6/14/2015	9,784.00	9,904.00	40	MARCELLUS
40	6/15/2015	9,632.00	9,754.00	40	MARCELLUS
41	6/15/2015	9,484.00	9,604.00	40	MARCELLUS
42	6/15/2015	9,334.00	9,456.00	40	MARCELLUS
43	6/15/2015	9,184.00	9,304.00	40	MARCELLUS
44	6/15/2015	9,034.00	9,152.00	40	MARCELLUS
45	6/15/2015	8,884.00	9,006.00	40	MARCELLUS
46	6/16/2015	8,734.00	8,854.00	40	MARCELLUS
47	6/16/2015	8,587.00	8,704.00	40	MARCELLUS
48	6/16/2015	8,434.00	8,556.00	40	MARCELLUS
49	6/16/2015	8,284.00	8,406.00	40	MARCELLUS
50	6/16/2015	8,134.00	8,256.00	40	MARCELLUS

03/25/2016

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/5/2015
Job End Date:	6/17/2015
State:	West Virginia
County:	Wetzel
API Number:	47-103-03043-00-00
Operator Name:	EQT Production
Well Name and Number:	513920
Longitude:	-80.58206500
Latitude:	39.52749500
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,633
Total Base Water Volume (gal):	11,845,512
Total Base Non Water Volume:	0

FracFocus Chemical Disclosure Registry

GROUNDWATER PROTECTION COUNCIL

Oil & Gas

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	C and J Energy Services	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	90.39380	None
Sand (Proppant)	C and J Energy Services	Proppant					
			Silica Substrate	14808-60-7	100.00000	9.17977	None
WFR-12W	C and J Energy Services	Friction reducer					
			Anionic water-soluble polymer	Proprietary	100.00000	0.07389	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution					
			Calcium nitrate	10124-37-5	60.00000	0.05677	None
Hydrochloric Acid (15%)	C and J Energy Services	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.03276	None
Super TSC LT	C and J Energy Services	Scale control					
			Proprietary non-hazardous materials	Proprietary	100.00000	0.02688	None
LSG-100	C and J Energy Services	Gelling agent					
			Solvent naphtha	64742-47-8	65.00000	0.00777	None
			Proprietary non-hazardous polymers	Proprietary	60.00000	0.00717	None

AI-2	C and J Energy Services	Acid Inhibitor					
			Glycol Ethers	111-76-2	40.00000	0.00016	None
			Propargyl Alcohol	107-19-7	40.00000	0.00016	None
			Isopropyl Alcohol	67-63-0	40.00000	0.00016	None
			Ethoxylated Nonylphenol	68412-54-4	13.00000	0.00005	None
			Benzyl Chloride-Quaternized	72480-70-7	10.00000	0.00004	None
OB-2	C and J Energy Services	Gel Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00014	None
			Silica, crystalline quartz	7631-86-9	30.00000	0.00004	None
WFR-6W	C and J Energy Services	Friction reducer					
			Anionic water-soluble polymer	Proprietary	100.00000	0.00014	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)

Welcome Michelle N., Operator - OpNo. E1210363 [Log Out]

Hydraulic Fracturing DISCLOSURE

FracFocus Chemical Disclosure Registry

Please use the FracFocus XML submission process or create disclosures online.

FIND A WELL BY STATE | ABOUT PROJECT PARTNERS

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

Prepare Disclosure for FracFocus Submission

Disclosure Lists | Dashboard

Disclosure has been submitted.

Note: This window expires with 10 minutes of inactivity. After that you will be taken back to the dashboard.

Preview Disclosure PDF | Validate Disclosure | Submit To FracFocus

Hydraulic Fracturing Data

Edit

Job Start Date	Job End Date	API Number	State & County
6/5/2015	6/17/2015	47-103-03043-00-00	West Virginia --- Wetzel

Well Name
513920

Longitude	Latitude	Datum	Federal/Tribal Well?
-80.582065	39.527495	NAD83	

True Vertical Depth (ft)	Total Water Vol (gal)	Total Non Water Vol	Total Mass (lbs)
7633	11845512	0	109355729

MSDS Chemical Ingredients

New Additive | Select Additive | Add Additive

	Trade Name	Supplier	Purpose	Ingredients	CAS #	% High Additive	% HF Job	Comments	Ingredient Mass
Edit	Water	C and J Energy Services	Carrier/Base Fluid						
				Water	7732-18-5	100%	90.3937986253%	None	98850797.64
Edit	Sand (Proppant)	C and J Energy Services	Proppant						
				Silica Substrate	14808-60-7	100%	9.1797659558%	None	10038600
Edit	WFR-12W	C and J Energy Services	Friction reducer						
				Anionic water-soluble polymer	Proprietary	100%	.0738857977%	None	80798.353
Edit	MC MX 437-5	Multi-Chem	Calcium nitrate solution						
				Calcium nitrate	10124-37-5	60%	.0567694271%	None	62080.621
Edit	Hydrochloric Acid (15%)	C and J Energy Services	Acidizing						
				Hydrochloric Acid	7647-01-0	15%	.0327629971%	None	35828.214
Edit	Super TSC LT	C and J Energy Services	Scale control						

08/25/2016

			Proprietary non-hazardous materials	Proprietary	100%	.0268765891%	None	29391.09
Edit LSG-100	C and J Energy Services	Gelling agent						
			Solvent naphtha	64742-47-8	65%	.0077666726%	None	8493.301
			Proprietary non-hazardous polymers	Proprietary	60%	.0071692363%	None	7839.971
Edit AI-2	C and J Energy Services	Acid Inhibitor						
			Glycol Ethers	111-76-2	40%	.0001616716%	None	176.797
			Propargyl Alcohol	107-19-7	40%	.0001616716%	None	176.797
			Isopropyl Alcohol	67-63-0	40%	.0001616716%	None	176.797
			Ethoxylated Nonylphenol	68412-54-4	13%	.0000525433%	None	57.459
			Benzyl Chloride-Quaternized	72480-70-7	10%	.0000404179%	None	44.199
Edit OB-2	C and J Energy Services	Gel Breaker						
			Ammonium Persulfate	7727-54-0	100%	.0001410077%	None	154.2
			Silica, crystalline quartz	7631-86-9	30%	.0000423023%	None	46.26
Edit WFR-6W	C and J Energy Services	Friction reducer						
			Anionic water-soluble polymer	Proprietary	100%	.0001434258%	None	156.844

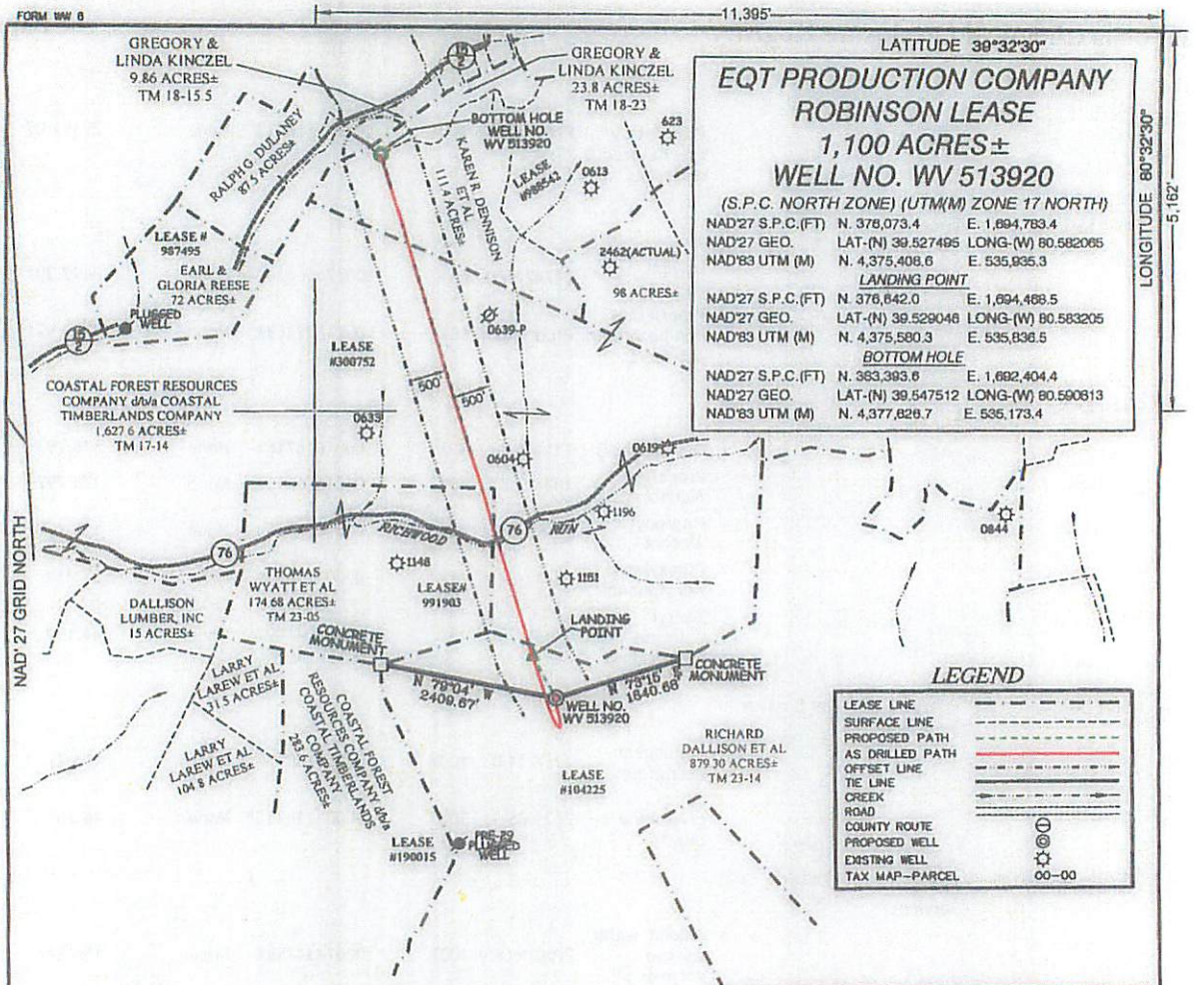
Non-MSDS Chemical Ingredients

New Ingredients

Trade Name	Supplier	Purpose	Ingredients	CAS #	% High Additive	% HF Job	Comments	Ingredient Mass

03/25/2016

FORM WW 6



EQT PRODUCTION COMPANY
ROBINSON LEASE
1,100 ACRES±
WELL NO. WV 513920

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

NAD'27 S.P.C.(FT)	N. 376,073.4	E. 1,694,783.4
NAD'27 GEO.	LAT-(N) 39.527495	LONG-(W) 80.582065
NAD'83 UTM (M)	N. 4,375,408.6	E. 535,935.3
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 376,642.0	E. 1,694,468.5
NAD'27 GEO.	LAT-(N) 39.529048	LONG-(W) 80.583205
NAD'83 UTM (M)	N. 4,375,580.3	E. 535,836.5
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 383,393.6	E. 1,692,404.4
NAD'27 GEO.	LAT-(N) 39.547512	LONG-(W) 80.590813
NAD'83 UTM (M)	N. 4,377,826.7	E. 535,173.4

LEGEND

LEASE LINE	
SURFACE LINE	
PROPOSED PATH	
AS DRILLED PATH	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	⊖
PROPOSED WELL	⊕
EXISTING WELL	☼
TAX MAP–PARCEL	00–00

AS DRILLED COORDINATES FOR WELL NO. WV 513920

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

NAD'27 S.P.C.(FT)	N. 376,073.4	E. 1,694,783.4
NAD'27 GEO	LAT-(N) 39.527495	LONG-(W) 80.582065
NAD'83 UTM (M)	N. 4,375,408.6	E. 535,935.3
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 383,390.8	E. 1,692,398.2
NAD'27 GEO	LAT-(N) 39.547505	LONG-(W) 80.590835
NAD'83 UTM (M)	N. 4,377,625.8	E. 535,171.5

ROYALTY OWNERS		
MILLS WETZEL LANDS INC.	1000 AC.±	LEASE NO. 300752
GLADY WILLEY ET AL	175 AC.±	LEASE NO. 991903
CNX	288 AC.±	LEASE NO. 988542

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. AS DRILLED INFORMATION PROVIDED BY EQT.

Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING INC.
SLS
SURVEYING ENGINEERING ENVIRONMENTAL PROJECT MGMT.
(304) 483-4404 WWW.SLSSURVEYS.COM

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. 2288 Earl N. Thompson

EARL N. THOMPSON LICENSED No. 2288 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

DATE APRIL 18 , 20 13

REVISED 06/07/13, 07/09/14, 08/05/14 & 05/26/15

OPERATORS WELL NO. WV 513920

API WELL NO. 47 – 103 – 03043H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7797AD513920

SCALE 1" = 2000'

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:

ELEVATION 1,452' (PAD ELEVATION) WATERSHED AUNTY RUN OF SOUTH FORK FISHING CREEK

DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'

SURFACE OWNER RICHARD DALLISON ET AL ACREAGE 879.30±

ROYALTY OWNER ED BROOME, INC ET AL ACREAGE 1,100±

PROPOSED WORK: LEASE NO. 104225

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 TVD 7,631'

COUNTY NAME

PERMIT

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280

BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

03/25/2016