

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 513982

API: 47 - 103 - 02906

Submission: Initial Amended

Notes: add'l inj test - 36.02

Correction to Production Cement Top
(MD)

RECEIVED
Office of Oil and Gas

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WV Department of
Environmental Protection

AX 03/22/16
03/25/2016

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

API 47 - 103 - 02906 County Wetzel District Grant
Quad Pine Grove Pad Name PNG103 Field/Pool Name _____
Farm name Sharon Ann Scyoc Well Number 513982
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 4,379,597 Easting 532,086
Landing Point of Curve Northing 4,379,233 Easting 531,337
Bottom Hole Northing 4,377,636 Easting 531,744

Elevation (ft) 1458 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)
SBM 13.2 ppg – powdered hydrocarbon resin, calcium carbonate, ground almond hulls, barium sulfate, calcium chloride, lecithin liquid, organophilic clay,
partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 08/21/2013 Date drilling commenced 07/22/2014 Date drilling ceased 01/23/2015
Date completion activities began 3/21/2015 Date completion activities ceased 3/26/2015
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 783 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2493 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1173 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
DmH
03/25/2016

API 47- 103 - 02906 Farm name Sharon Ann Scyoc Well number 513982

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"	60'	NEW	A-500 40LB/FT	NONE	Y
Surface	17.5"	13.375"	1,300'	NEW	J-55 54.5LB/FT	252', 708'	Y
Coal							
Intermediate 1	12.375"	9.625"	3,369'	NEW	P-110 40LB/FT	1,466', 2,057'	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	14,189'	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	73	15.6	1.18	86.14	0	8
Surface	CLASS A	1160	16.0	1.14	1322.4	0	8
Coal							
Intermediate 1	CLASS A	1230	15.6	1.18	1451.4	0	8
Intermediate 2							
Intermediate 3							
Production	Class A / Class H	910/740	14.2/15.2	1.26/1.97	2604.4	3,061'	72
Tubing							

Drillers TD (ft) 14,191' 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) 4,250' MD

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

CONDUCTOR- NONE
 SURFACE- JOINTS: 1,13,25
 INTERMEDIATE- RAN AT LEAST EVERY 500' FEET JOINTS: 1,12,24,36,48,60,72
 Production- 235 Composite bodied centralizers on every joint from TD up to 4,000'

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- 103 - 02906 Farm name Sharon Ann Scyoc Well number 513982

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.

API 47- 103 - 02906 Farm name Sharon Ann Scyoc Well number 513982

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	7,438'	TVD	8,635' MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,550 psi Bottom Hole N/A psi DURATION OF TEST 71.0 hrs

OPEN FLOW Gas 12,810 mcfpd Oil 0 bpd NGL 46.1 bpd Water 1,145 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME 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 ₂ S, ETC)
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Keane & Sons Drilling (Rig 2143)
Address 14235 Old Route 6 City Mansfield State PA Zip 16933

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

Cementing Company Allied Services
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Keane
Address 2121 Sage Road City Houston State TX Zip 77056

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

API 47- 103 - 02906 Farm name Sharon Ann Scyoc Well number 513982

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

API 47 - 103 - 02906

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	1	1	783	783
SAND/SHALE	1	1	1,060	1,060
COAL	1,060	1,060	1,064	1,064
SAND/SHALE	1,064	1,064	1,167	1,167
COAL	1,167	1,167	1,173	1,173
SAND/SHALE	1,173	1,173	2,306	2,301
MAXTON	2,306	2,301	2,523	2,518
BIG LIME	2,523	2,518	2,795	2,790
WEIR	2,795	2,790	2,994	2,989
GANTZ	2,994	2,989	3,114	3,108
50F	3,114	3,108	3,190	3,184
30F	3,190	3,184	3,242	3,236
GORDON	3,242	3,236	3,324	3,318
4TH	3,324	3,318	3,450	3,444
BAYARD	3,450	3,444	3,902	3,896
WARREN	3,902	3,896	4,053	4,047
SPEECHLEY	4,053	4,047	4,898	4,808
RILEY	4,898	4,808	5,900	5,570
BENSON	5,900	5,570	6,250	5,832
ALEXANDER	6,250	5,832	6,304	5,873
ELKS	6,304	5,873	7,834	7,023
SONYEA	7,834	7,023	8,065	7,189
MIDDLESEX	8,065	7,189	8,124	7,228
GENESEE	8,124	7,228	8,264	7,309
GENESEO	8,264	7,309	8,316	7,335
TULLY	8,316	7,335	8,371	7,360
HAMILTON	8,371	7,360	8,635	7,438
MARCELLUS	8,635	7,438	14,191	7,477

03/25/2016

513982 - 47-103-02906-0000-- Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	3/12/2015	14,187.00	14,189.00	10	MARCELLUS
1	3/19/2015	14,042.00	14,132.00	32	MARCELLUS
2	3/19/2015	13,888.00	14,014.00	40	MARCELLUS
3	3/19/2015	13,742.00	13,862.00	40	MARCELLUS
4	3/20/2015	13,596.00	13,712.00	40	MARCELLUS
5	3/20/2015	13,442.00	13,564.00	24	MARCELLUS
6	3/20/2015	13,292.00	13,414.00	40	MARCELLUS
7	3/20/2015	13,142.00	13,264.00	40	MARCELLUS
8	3/20/2015	12,992.00	13,114.00	40	MARCELLUS
9	3/21/2015	12,842.00	12,958.00	40	MARCELLUS
10	3/21/2015	12,692.00	12,814.00	40	MARCELLUS
11	3/21/2015	12,542.00	12,664.00	40	MARCELLUS
12	3/21/2015	12,392.00	12,514.00	40	MARCELLUS
13	3/21/2015	12,242.00	12,360.00	40	MARCELLUS
14	3/22/2015	12,092.00	12,214.00	40	MARCELLUS
15	3/22/2015	11,942.00	12,064.00	40	MARCELLUS
16	3/22/2015	11,792.00	11,914.00	40	MARCELLUS
17	3/22/2015	11,642.00	11,764.00	40	MARCELLUS
18	3/22/2015	11,492.00	11,614.00	40	MARCELLUS
19	3/22/2015	11,342.00	11,464.00	40	MARCELLUS
20	3/23/2015	11,192.00	11,312.00	40	MARCELLUS
21	3/23/2015	11,042.00	11,164.00	40	MARCELLUS
22	3/23/2015	10,892.00	11,014.00	40	MARCELLUS
23	3/23/2015	10,742.00	10,864.00	40	MARCELLUS
24	3/23/2015	10,592.00	10,712.00	40	MARCELLUS
25	3/24/2015	10,442.00	10,564.00	40	MARCELLUS
26	3/24/2015	10,292.00	10,409.00	40	MARCELLUS
27	3/24/2015	10,142.00	10,264.00	40	MARCELLUS
28	3/24/2015	9,992.00	10,114.00	40	MARCELLUS
29	3/24/2015	9,842.00	9,964.00	40	MARCELLUS
30	3/24/2015	9,692.00	9,812.00	40	MARCELLUS
31	3/25/2015	9,542.00	9,664.00	40	MARCELLUS
32	3/25/2015	9,392.00	9,514.00	40	MARCELLUS
33	3/25/2015	9,242.00	9,364.00	40	MARCELLUS
34	3/25/2015	9,092.00	9,214.00	40	MARCELLUS
35	3/25/2015	8,942.00	9,064.00	40	MARCELLUS
36	3/26/2015	8,792.00	8,914.00	40	MARCELLUS
37	3/26/2015	8,642.00	8,764.00	40	MARCELLUS
38	3/26/2015	8,492.00	8,614.00	40	MARCELLUS

513982 - 47-103-02906-0000- 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	3/19/2015	20.1	7,626.00	8,825.00	6,502.00	0	828	0
1	3/19/2015	85.3	8,452.00	8,878.00	3,622.00	146,138	6,894	0
2	3/19/2015	94.3	8,773.00	9,131.00	3,718.00	198,608	6,046	0
3	3/20/2015	95.4	8,726.00	9,125.00	4,158.00	190,925	5,568	0
4	3/20/2015	96.9	8,473.00	8,739.00	4,032.00	200,344	5,704	0
5	3/20/2015	91.8	8,849.00	9,219.00	4,333.00	200,745	5,595	0
6	3/20/2015	92.1	8,914.00	9,111.00	4,650.00	201,587	5,677	0
7	3/20/2015	96.9	8,684.00	9,531.00	4,073.00	200,509	5,899	0
8	3/21/2015	99.9	8,399.00	8,678.00	3,248.00	199,910	5,654	0
9	3/21/2015	100	8,720.00	9,141.00	4,610.00	199,752	5,561	0
10	3/21/2015	97.8	8,122.00	8,797.00	5,153.00	198,230	5,466	0
11	3/21/2015	98.9	8,681.00	9,036.00	4,575.00	200,560	5,429	0
12	3/21/2015	99.1	7,917.00	8,139.00	4,685.00	198,259	5,504	0
13	3/21/2015	100.3	8,076.00	8,376.00	4,579.00	199,105	5,634	0
14	3/22/2015	100.6	8,328.00	8,617.00	4,388.00	200,023	5,551	0
15	3/22/2015	100.2	8,064.00	8,325.00	5,066.00	200,145	5,513	0
16	3/22/2015	100	8,460.00	8,983.00	5,342.00	197,810	5,432	0
17	3/22/2015	99.9	8,148.00	8,557.00	4,127.00	197,790	5,275	0
18	3/22/2015	100.6	8,211.00	8,836.00	4,553.00	199,475	5,741	0
19	3/23/2015	100.9	8,345.00	8,666.00	5,060.00	199,000	5,456	0
20	3/23/2015	101.20	8,180.00	8,402.00	4,770.00	199,770	5,757	0
21	3/23/2015	97.50	8,351.00	8,761.00	5,001.00	200,164	5,256	0
22	3/23/2015	100.30	7,949.00	8,206.00	5,060.00	199,916	5,509	0
23	3/23/2015	96.30	8,244.00	8,570.00	4,597.00	199,987	5,444	0
24	3/23/2015	100.90	8,096.00	8,776.00	5,121.00	198,022	5,760	0
25	3/24/2015	100.70	8,115.00	8,436.00	5,646.00	198,281	5,368	0
26	3/24/2015	100.30	7,919.00	8,190.00	4,488.00	199,415	5,295	0
27	3/24/2015	100.30	7,918.00	8,209.00	4,962.00	199,918	5,151	0
28	3/24/2015	100.70	7,848.00	8,135.00	4,345.00	199,705	5,542	0
29	3/24/2015	98.50	8,094.00	8,717.00	4,700.00	200,231	5,179	0
30	3/24/2015	99.90	8,168.00	8,968.00	4,690.00	199,410	5,236	0
31	3/25/2015	99.70	8,026.00	8,220.00	5,603.00	199,821	5,142	0
32	3/25/2015	100.10	8,020.00	8,578.00	5,264.00	199,719	5,488	0
33	3/25/2015	99.00	7,997.00	8,599.00	4,139.00	199,908	5,113	0
34	3/25/2015	100.30	7,858.00	8,186.00	4,437.00	199,540	5,488	0
35	3/25/2015	99.90	8,052.00	8,563.00	4,215.00	200,563	5,113	0
36	3/26/2015	96.90	8,060.00	10,186.00	6,549.00	199,730	4,805	0
36.02	3/26/2015	8.80	4,982.00	7,325.00	5,148.00	0	1,637	0
37	3/26/2015	99.20	8,047.00	8,540.00	4,164.00	200,430	5,078	0
38	3/26/2015	100.20	7,541.00	8,364.00	4,414.00	199,445	5,274	0

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/12/2015
Job End Date:	3/26/2015
State:	West Virginia
County:	Wetzel
API Number:	47-103-02906-00-00
Operator Name:	EQT Production
Well Name and Number:	513982
Longitude:	-80.62664700
Latitude:	39.56538900
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,477
Total Base Water Volume (gal):	8,864,478
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	Keane Group	Carrier/Base Fluid	Water	7732-18-5	100.00000	90.37812	None
Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100.00000	9.19112	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05788	None
Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.03632	None
SL 1072	Keane Group	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	25.00000	0.01700	None
EC6330A	Keane Group	Scale Inhibitor	Sodium Phosphate, Tribasic	7601-54-9	5.00000	0.00108	None
SL 1125	Keane Group	Friction Reducer	Distilles, hydrotreated light	64742-47-8	25.00000	0.00046	None
			Ammonium acetate	531-61-8	10.00000	0.00018	None
			Alcohols, C12-14, ethoxylated	68439-50-9	3.60000	0.00007	None
			Alcohols, C12-16, ethoxylated	68551-12-2	3.60000	0.00007	None
			Alcohols, C10-16, ethoxylated	68002-97-1	3.60000	0.00007	None

AI 600	Keane Group	Corrosion Inhibitor					
			Ethylene Glycol	107-21-1	40.00000	0.00024	None
			N, N-Dimethylformamide	68-12-2	20.00000	0.00012	None
			Cinnamialdehyde	104-55-2	15.00000	0.00009	None
			Tar bases, quinoline derivs, benzyl chloride-quatemized	72480-70-7	15.00000	0.00009	None
			2-Butoxyethanol	111-76-2	15.00000	0.00009	None
			1-Decanol	112-30-1	5.00000	0.00003	None
			Poly (oxy-1,2-ethanediyl), alpha.-(4-nonylphenyl)-omega- hydroxy- branched	127087-87-0	5.00000	0.00003	None
			Isopropyl alcohol	67-63-0	2.50000	0.00002	None
			1-Octanol	111-87-5	2.50000	0.00002	None
			Triethyl Phosphate	78-40-0	2.50000	0.00002	None
LEB-10X	Keane Group	Gel Breaker					
			Ethylene Glycol	107-21-1	30.00000	0.00001	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
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Hydraulic Fracturing Data

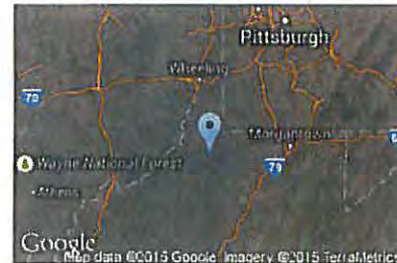
[Edit](#)

Job Start Date 3/12/2015 Job End Date 3/26/2015 API Number 47-103-02906-00-00 State & County West Virginia --- Wetzel

Well Name 513982

Longitude -80.626647 Latitude 39.565389 Datum NAD83 Federal/Tribal Well?

True Vertical Depth (ft) 7477 Total Water Vol (gal) 8864478 Total Non Water Vol 0 Total Mass (lbs) 81849537



MSDS Chemical Ingredients

[New Additive](#) [Add Additive](#)

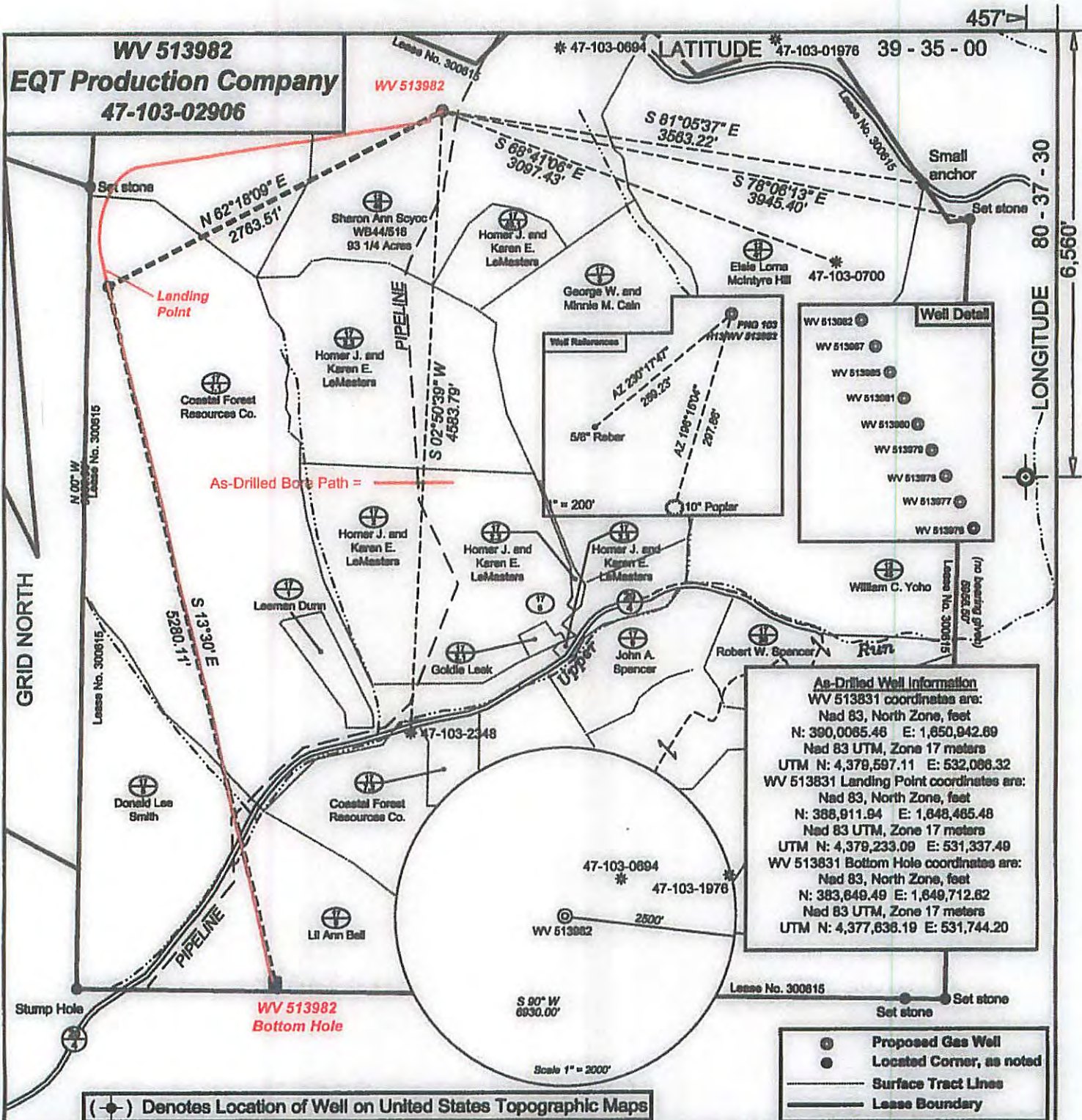
	Trade Name	Supplier	Purpose	Ingredients	CAS #	% High Additive	% HF Job	Comments	Ingredient Mass
Edit	Water	Keane Group	Carrier/Base Fluid	Water	7732-18-5	100%	90.3781150982%	None	73974068.91
Edit	Sand (Proppant)	Keane Group	Proppant	Silica Substrate	14808-60-7	100%	9.191121001%	None	7522890
Edit	MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60%	.0578834235%	None	47377.314
Edit	Hydrochloric Acid (15%)	Keane Group	Acidizing	Hydrochloric Acid	7647-01-0	15%	.0363236767%	None	29730.761
Edit	SL 1072	Keane Group	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	25%	.0169971776%	None	13912.111
Edit	EC6330A	Keane Group	Scale Inhibitor	Sodium Phosphate, Tribasic	7601-54-9	5%	.0010840599%	None	887.298
Edit	SL 1125	Keane Group	Friction Reducer	Distilles, hydrotreated light		25%	.0004568773%	None	373.952

<input type="button" value="Edit"/>	AI 600	Keane Group	Corrosion Inhibitor	Ammonium acetate	64742-47-8	10%	.0001827509%	None	149.581
				Alcohols, C12-14, ethoxylated	631-61-8	3.6%	.0000657903%	None	53.849
				Alcohols, C12-16, ethoxylated	68439-50-9	3.6%	.0000657903%	None	53.849
				Alcohols, C10-16, ethoxylated	68551-12-2	3.6%	.0000657903%	None	53.849
				Ethylene Glycol	68002-97-1	40%	.0002422721%	None	198.299
				N, N-Dimethylformamide	107-21-1	20%	.000121136%	None	99.149
				Cinnamialdehyde	68-12-2	15%	.000090852%	None	74.362
				Tar bases, quinoline derivs, benzyl chloride-quatemized	104-55-2	15%	.000090852%	None	74.362
				Z-Butoxyethanol	72480-70-7	15%	.000090852%	None	74.362
				1-Decanol	111-76-2	5%	.000030284%	None	24.787
				Poly (oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl) .omega.-hydroxy-, branched	112-30-1	5%	.000030284%	None	24.787
				Isopropyl alcohol	127087-87-0	2.5%	.000015142%	None	12.394
				1-Octanol	67-63-0	2.5%	.000015142%	None	12.394
				Triethyl Phosphate	111-87-5	2.5%	.000015142%	None	12.394
<input type="button" value="Edit"/>	LEB-10X	Keane Group	Gel Breaker	Ethylene Glycol	107-21-1	30%	.000009176%	None	7.511

Non-MSDS Chemical Ingredients

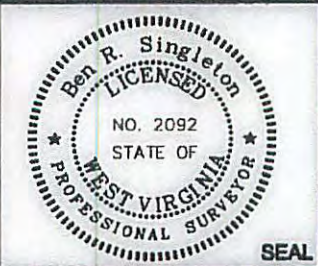
Trade Name	Supplier	Purpose	Ingredients	CAS #	% High Additive	% HF Job	Comments	Ingredient Mass
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I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Ben R. Singleton
P.S. 2092



FILE NO: 212-34-G-10
DRAWING NO: 212-10 PNG 103 H13.dwg
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station

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

DATE: January 28 20 15
OPERATOR'S WELL NO. WV 513982
API WELL NO. 47 - 103 - 02906
STATE COUNTY PERMIT

03/25/2016