

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

API 47-051-01687 County Marshall District Webster
Quad Majorsville Pad Name WEB22 Field/Pool Name NA
Farm name Tim M. Turley and Tammy JF Well Number AHS
Operator (as registered with the OOG) Noble Energy, Inc.
Address 1000 Noble Energy Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4419309.8 Easting 541036.8
Landing Point of Curve Northing 4419402.5 Easting 540788.3
Bottom Hole Northing 4421210.7 Easting 539478.0

Elevation (ft) 1338.56 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)
Synthetic Oil Based

Received

APR 20 2015

Office of Oil and Gas

WV Dept. of Environmental Protection

Date permit issued 12/12/2013 Date drilling commenced 2/8/2014 Date drilling ceased 6/14/2014
Date completion activities began 10/14/2014 Date completion activities ceased 2/14/2015
Verbal plugging (Y/N) N Date permission granted NA Granted by NA

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

Freshwater depth(s) ft 212', 295' Open mine(s) (Y/N) depths Near Bailey Mine - approx. 770'
Salt water depth(s) ft None noted for Offsets Void(s) encountered (Y/N) depths none
Coal depth(s) ft 761' to 771' Pittsburgh Cavern(s) encountered (Y/N) depths none
Is coal being mined in area (Y/N) N

Reviewed by:
A.W. 5/26/15
W.S. 6/11/15

06/12/2015

API 47-051 - 01687 Farm name Tim M. Turley and Tammy JF Well number AHS

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	36	30	40	N			
Surface	24	20	429.0	N	J-55 94#		Y
Coal							
Intermediate 1	17 1/2	13 3/8	1244.5	N	J-55 54.5#		Y
Intermediate 2	12 1/4	9 5/8	3402.8	N	J-55 36#		
Intermediate 3							
Production	8 3/4	5 1/2	14789.0	N	P-110 20#		Y
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							
Surface							
Coal							
Intermediate 1	Class A	1051	15.6	1.16	1219.16	0	8
Intermediate 2	Class HALCEM	1175	16.2	1.09	1280.75	0	8
Intermediate 3							
Production	Lead ECONOCEM - Tail Class H	Lead 1032 Tail 1779	Lead 14.2 Tail 15.0	Lead 1.32 Tail 1.30	Lead 240.0 Tail 416.8	1550.0	8
Tubing							

Drillers TD (ft) 14,804 Loggers TD (ft) 14,781
 Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole
 Plug back procedure NA

Kick off depth (ft) 8888

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 - No centralizers used. Fresh Water/Surface-
Surface - 4 centralizers used, one every third joint with 2 Baskets Intermediate - 11 bow spring centralizers - Intermediate 2 - 24 bow spring centralizers on every joint to KOP, on every third joint from KOP to 100' from surface.
Production - 236 centralizers - rigid bow spring every third joint from KOP to TOC, rigid bow spring every joint to KOP.

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 _____

Received

APR 20 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

06/12/2015

API 47- 051 - 01687 Farm name Tim M. Turley and Tammy JF Well number AHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE ATTACHED PERFORATION RECORD				

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)
	SEE ATTACHED STIMULATION INFORMATION PER STAGE RECORD							

Received

APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Please insert additional pages as applicable.

PERFORATION RECORD

API: 47-051-01687

Farm name: TIM M. TURLEY AND TAMMY JENKINS

Well Name: WEB-22 A

Stage No.	Perf Date	Top Perf	Bottom Perf	# of Perfs	Formation
1	10/14/2014	14471	14633	50	Marcellus
1 Inj Test (1)	10/14/2014				Marcellus
1 Inj Test (2)	10/14/2014				Marcellus
2	10/15/2014	14269	14431	50	Marcellus
3	10/16/2014	14067	14229	50	Marcellus
4	10/16/2014	13865	14027	50	Marcellus
5	10/17/2014	13663	13825	50	Marcellus
6	10/18/2014	13461	13623	50	Marcellus
7	10/18/2014	13259	13421	50	Marcellus
8	10/18/2014	13057	13219	50	Marcellus
9	10/19/2014	12855	13017	50	Marcellus
10 + Inj Test	10/19/2014	12653	12815	50	Marcellus
11	10/19/2014	12451	12613	50	Marcellus
12	10/20/2014	12249	12411	50	Marcellus
13	10/20/2014	12047	12209	50	Marcellus
13 Reperf	10/21/2014	12037	12078	48	Marcellus
14	10/21/2014	11845	12007	50	Marcellus
15	10/21/2014	11643	11805	50	Marcellus
16	10/21/2014	11441	11603	50	Marcellus
16 Reperf	10/22/2014	11453	11511	48	Marcellus
17 TCP	10/25/2014	11239	11401	50	Marcellus
17 Inj test	10/26/2014				Marcellus
17 Reperf	10/26/2014	11210	11222	24	Marcellus
18	10/28/2014	11041	11211	58	Marcellus
19	10/28/2014	10841	11011	58	Marcellus
20	10/29/2014	10641	10811	58	Marcellus
21	10/29/2014	10441	10611	58	Marcellus
22	10/29/2014	10241	10411	58	Marcellus
23	10/29/2014	10041	10211	58	Marcellus
24	10/30/2014	9841	10011	58	Marcellus
25	10/30/2014	9641	9811	58	Marcellus
26	10/30/2014	9441	9611	58	Marcellus
27	10/30/2014	9241	9411	58	Marcellus
28	10/31/2014	9041	9211	58	Marcellus
29	10/31/2014	8841	9011	58	Marcellus
30	10/31/2014	8641	8811	58	Marcellus
31	11/1/2014	8441	8611	58	Marcellus
32	11/1/2014	8241	8411	58	Marcellus
32 Reperf	11/1/2014	8247	8282	48	Marcellus
33	11/2/2014	8041	8211	58	Marcellus
34	11/2/2014	7841	8011	58	Marcellus

Received

APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015

PERFORATION RECORD

API: 47-051-01687

Farm name: TIM M. TURLEY AND TAMMY JENKINS

Well Name: WEB-22 A

Stage No.	Perf Date	Top Perf	Bottom Perf	# of Perfs	Formation
35	11/2/2014	7641	7811	58	Marcellus
36	11/3/2014	7441	7611	58	Marcellus
37	11/3/2014	7241	7411	58	Marcellus
38	11/3/2014	7100	7212	36	Marcellus

Received

APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015

STIMULATION INFORMATION PER STAGE

API: 47-051-01687

Farm name: TIM M. TURLEY AND TAMMY JENKINS

Well Name: WEB-22 A

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other
1	10/14/2014	82.4	7944	6921	4013	406,604	11,726.38	
1 Inj Test (1)	10/14/2014	12.3	6624				393.10	
1 Inj Test (2)	10/14/2014	12.3	6624				859.10	
2	10/15/2014	83.1	7970	6395	4339	391,400	16,138.38	
3	10/16/2014	90.3	7448	5715	4609	402,468	9,155.38	
4	10/16/2014	88.9	7934	6174	4238	403,549	10,244.38	
5	10/17/2014	90.3	7826	5895	4506	404,399	9,222.38	
6	10/18/2014	87.5	7751	6390	4457	402,078	9,318.38	
7	10/18/2014	90.9	7763	6058	4474	400,924	9,168.38	
8	10/18/2014	90.0	7520	6163	4617	401,176	8,998.38	
9	10/19/2014	79.4	7820	5989	4349	402,351	14,318.76	
10 + Inj Test	10/19/2014	84.8	8073	5805	4419	397,528	12,207.38	
11	10/19/2014	85.7	7668	6059	4382	399,504	11,898.38	
12	10/20/2014	75.3	7996	5674	4706	354,155	9,834.38	
13	10/20/2014	44.2	8227	4850	5561	384,100	4,221.95	
13 Reperf	10/21/2014	79.5	8128		5460		11,844.57	
14	10/21/2014	59.5	8088	5516	4332	400,652	12,650.76	
15	10/21/2014	85.3	7404	5323	4800	403,143	10,887.38	
16	10/21/2014	65.1	8211	5990	4750	403,783	11,858.76	
16 Reperf	10/22/2014	45.0	8400		5466		9,310.76	
17 TCP	10/25/2014	30.1	8100		4684	380,155	3,521.14	
17 Inj test	10/26/2014						1,119.57	
17 Reperf	10/26/2014	73.2	8373		4334		10,999.38	
18	10/28/2014	87.1	8426	5910	5132	402,264	8,561.38	
19	10/28/2014	85.4	7620	5478	4886	401,038	10,944.38	
20	10/29/2014	83.2	8174	6167	5494	401,764	12,588.38	
21	10/29/2014	89.5	7595	6238	4523	400,883	12,686.38	
22	10/29/2014	88.9	7812	5804	4458	405,304	9,887.38	
23	10/29/2014	79.4	7879	5782	4657	401,779	13,493.38	
24	10/30/2014	84.0	7450	6383	4459	401,396	10,541.38	
25	10/30/2014	89.0	7709	6202	4644	400,599	10,458.38	
26	10/30/2014	88.3	7449	5941	5033	404,526	10,343.38	
27	10/30/2014	89.9	7500	5597	5020	401,753	9,455.38	
28	10/31/2014	89.2	7536	5949	4766	399,749	10,682.38	
29	10/31/2014	90.1	7852	5681	4676	402,583	10,783.38	
30	10/31/2014	86.5	7454	5989	4856	342,869	11,437.38	
31	11/1/2014	87.0	7307	6003	4047	402,658	10,343.38	
32	11/1/2014	88.1	7293	6112	4495	344,590	11,233.76	
32 Reperf	11/1/2014	82.1	7917		4102		8,973.76	
33	11/2/2014	86.8	7472	5406	3945	455,336	11,111.38	
34	11/2/2014	90.4	7327	5659	4506	402,351	12,307.38	

Received

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015

STIMULATION INFORMATION PER STAGE

API: 47-051-01687

Farm name: TIM M. TURLEY AND TAMMY JENKINS

Well Name: WEB-22 A

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other
35	11/2/2014	90.8	7302	5703	4470	402,142	10,401.38	
36	11/3/2014	90.7	6925	5289	5433	400,273	9,246.38	
37	11/3/2014	90.8	6849	5351	4611	403,402	8,547.38	
38	11/3/2014	88.7	7218	7083	4296	401,934	8,730.38	

Received

APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015

API 47- 051 - 01687 Farm name Tim M. Turley and Tammy JF Well number WEB 22 AHS

PRODUCING FORMATION(S)	DEPTHS		
<u>Marcellus</u>	<u>6819</u>	<u>TVD</u>	<u>14,804</u> <u>MD</u>

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY

3334 mcfpd 15 bpd 284.7 bpd 584 bpd 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)
	<u>0</u>		<u>0</u>		
	SEE ATTACHED FORMATION SHEET				

Received
APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company
Address 5400 D Big Tyler Road City Charleston State WV Zip 25313

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

Cementing Company Schlumberger
Address 4600 J. Barry Court, Suite 200 City Canonsburg State PA Zip 15317

Stimulating Company FTS International
Address 6000 Town Center Boulevard, Suite 120 City Canonsburg State PA Zip 15317

Please insert additional pages as applicable.

Completed by Regina A. Logue Telephone 724-820-3559
Signature Regina A. Logue Title Regulatory Analyst Date _____

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

06/12/2015

Formations	Top TVD	Base TVD	Top MD	Base MD	Fluid
Shale	0	780	0	780	
Pittsburgh Coal	780	790	780	790	
Shale and Sandstone	790	1308	790	1308	
Dunkard Sand	1308	1329	1308	1329	
Shale	1329	1470	1329	1470	
Gas Sand	1470	1518	1470	1518	
Shale	1518	1594	1518	1594	
1st Salt Sand	1594	1605	1594	1605	
Shale	1605	1730	1605	1730	
2nd Salt Sand	1730	1778	1730	1778	
Shale	1778	1798	1778	1798	
Maxton Sand	1798	1862	1798	1862	
Shale	1862	1905	1862	5409	
Big Lime	1905	1991	1905	6064	
Big Injun	1991	2147	1991	6637	
Price	2147	2492	2147	7111	
Murrysville	2492	2508	2492	7145	
Shale	2508	2694	2508	7221	
50' Sand	2694	2701	2694	5307	
Shale	2701	2808	2701	5409	
30' Sand	2808	2817	2808	6064	
Shale	2817	2869	2817	6637	
Gordon	2869	2873	2869	7111	
Shale	2873	2969	2873	7145	
Fifth Sand	2969	3008	2969	7221	
Shale	3008	3418	3008	7242	
Speechley Sand	3418	3438	3419	7274	
Shale	3438	4509	3440	7400	
Warren Sand	4509	4514	4521	not encountered	
Shale	4514	5180	4526	not encountered	
Java Shale	5180	5287	5199	not encountered	
Pipe Creek Shale	5287	5388	5307	not encountered	
Angola Shale	5388	6035	5409	6064	
Rhinestreet	6035	6495	6064	6637	
Cashaqua	6495	6603	6637	7111	
Middlesex	6603	6634	7111	7145	
West River	6634	6705	7145	7221	
Burkett	6705	6724	7221	7242	
Tully Limestone	6724	6754	7242	7274	
Hamilton	6754	6871	7274	7400	Gas
Marcellus	6871	6922	7400	not encountered	
Onondaga	6922	6930	not encountered	not encountered	
Huntersville	6930		not encountered	not encountered	

Received

APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015



West Virginia Department of Environmental Protection
Mr. John Kearny
Office of Oil & Gas
601 57th street, SE
Charleston, WV 25304-2345

April 15, 2015

To whom it may concern:

Enclosed is the Well Operator's Report of Well; Work, WR-35 for the following Wells, located in Marshall County, District of Webster.

Well	Permit Number
WEB 22 AHS	47-051-01687
WEB 22 BHS	47-051-01721
WEB 22 CHS	47-051-01678
WEB 22 DHS	47-051-01733
WEB 22 EHS	47-051-01734
WEB 22 FHS	47-051-01735
WEB 22 GHS	47-051-01722
WEB 22 HHS	47-051-01728
WEB 22 JHS	47-051-01723
WEB 22 KHS	47-051-01724

If you require any additional information or have questions please feel free to contact me at rlogue@nobleenergyinc.com or by calling my office number 724-820-3559.

Sincerely,

Regina Logue
Regulatory Analyst

Received

APR 20 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

06/12/2015

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	10/14/2014
Job End Date	11/3/2014
State	West Virginia
County	Marshall
API Number	47-051-01687-00-00
Operator Name	Noble Energy, Inc
Well Name and Number	WEB-22A
Longitude	-80.51999400
Latitude	39.92281900
Datum	NAD27
Federal/Tribal Well	NO
True Vertical Depth	6,819
Total Base Water Volume (gal)	18,591,568
Total Base Non Water Volume	0



Received
APR 20 2015




Office of Oil and Gas
WV Dept. of Environmental Protection

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	Operator	Carrier	Water	7732-18-5	100.00000	90.42679	
40/70 White	FTSI	proppant	Silica, Quartz	14808-60-7	100.00000	7.00762	
100 Mesh Sand	FTSI	proppant	Silica, Quartz	14808-60-7	100.00000	1.80866	
Hydrochloric Acid (HCl)	FTSI	Acid	Water	7732-18-5	63.00000	0.36863	
FRW-600	FTSI	Friction Reducer	Hydrogen Chloride	7647-01-0	37.00000	0.21650	
			Acrylamide Polymer	Trade Secret	100.00000	0.06890	
			Hydrotreated light distillate	64742-47-8	30.00000	0.02067	
			Ammonium acetate	631-61-3	8.00000	0.00413	
CS-500 SI	FTSI	Scale Inhibitor	Water	7732-18-5	55.00000	0.02671	
			Acrylic Polymer	Proprietary	24.00000	0.01166	
			Ethylene glycol	107-21-1	10.00000	0.00486	
			Sodium chloride	7647-14-5	6.00000	0.00291	
			Sodium Polyacrylate	9003-04-7	5.00000	0.00243	

06/12/2015

CI-3240	FTSI	Biocide	Water	7732-18-5	55.00000	0.02208
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione)	533-74-4	24.00000	0.00963
			Sodium Hydroxide	1310-73-2	23.00000	0.00923
HVG-1	FTSI	Water Gelling Agent	Guar Gum	9000-30-0	55.00000	0.00572
			Petroleum Distillate	64742-47-8	55.00000	0.00572
			Raffinates (Petroleum), Sorption Process	64741-85-1	50.00000	0.00520
			Clay	1302-78-9	5.00000	0.00052
			Surfactant	Proprietary	2.00000	0.00021
			Clay	14808-60-7	2.00000	0.00021
			Surfactant	154518-36-2	1.00000	0.00010
			Surfactant	9043-30-5	1.00000	0.00010
			Surfactant	24938-91-8	1.00000	0.00010
FE-100L	FTSI	Iron control	Water	7732-18-5	50.00000	0.00112
			Citric acid	77-92-9	55.00000	0.00103
CI-150	FTSI	Acid Corrosion Inhibitor	Isopropanol	67-63-0	30.00000	0.00031
			Organic amine resin salt	Proprietary	30.00000	0.00031
			Ethylene Glycol	107-21-1	30.00000	0.00031
			Quaternary ammonium compound	Proprietary	10.00000	0.00010
			Aromatic aldehyde	Proprietary	10.00000	0.00010
			Dimethylformamide	58-12-2	10.00000	0.00010
			Alkyene Oxide Block Polymer	Proprietary	10.00000	0.00010
			Water	7732-18-5	5.00000	0.00005
			Diethylene glycol	111-46-6	1.00000	0.00001
			Fatty Acid Salt	Proprietary	0.10000	0.00000
			Aliphatic alcohol	Proprietary	0.10000	0.00000
			Fatty Acid	Proprietary	0.10000	0.00000
NE-100	FTSI	Non-emulsifier	Water	7732-18-5	90.00000	0.00047
			2-Propanol	67-63-0	10.00000	0.00005
			2-Butoxyethanol	111-76-2	10.00000	0.00005
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00003
			Benzene C10-16 Alkyl Derivatives	68648-87-3	0.04000	0.00000
			Unsubstituted Matter	Proprietary	0.03000	0.00000
			Sulfuric Acid	7664-93-9	0.01000	0.00000
			Sulfur Dioxide	7446-09-5		0.00000
APB-1	FTSI	Gel breaker				


 APR 20 2015
 Office of Oil and Gas
 WV Dept. of Environmental Protection

06/12/2015

		Ammonium Persulfate	7727-54-0	100.00000	0.00035
--	--	---------------------	-----------	-----------	---------

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%

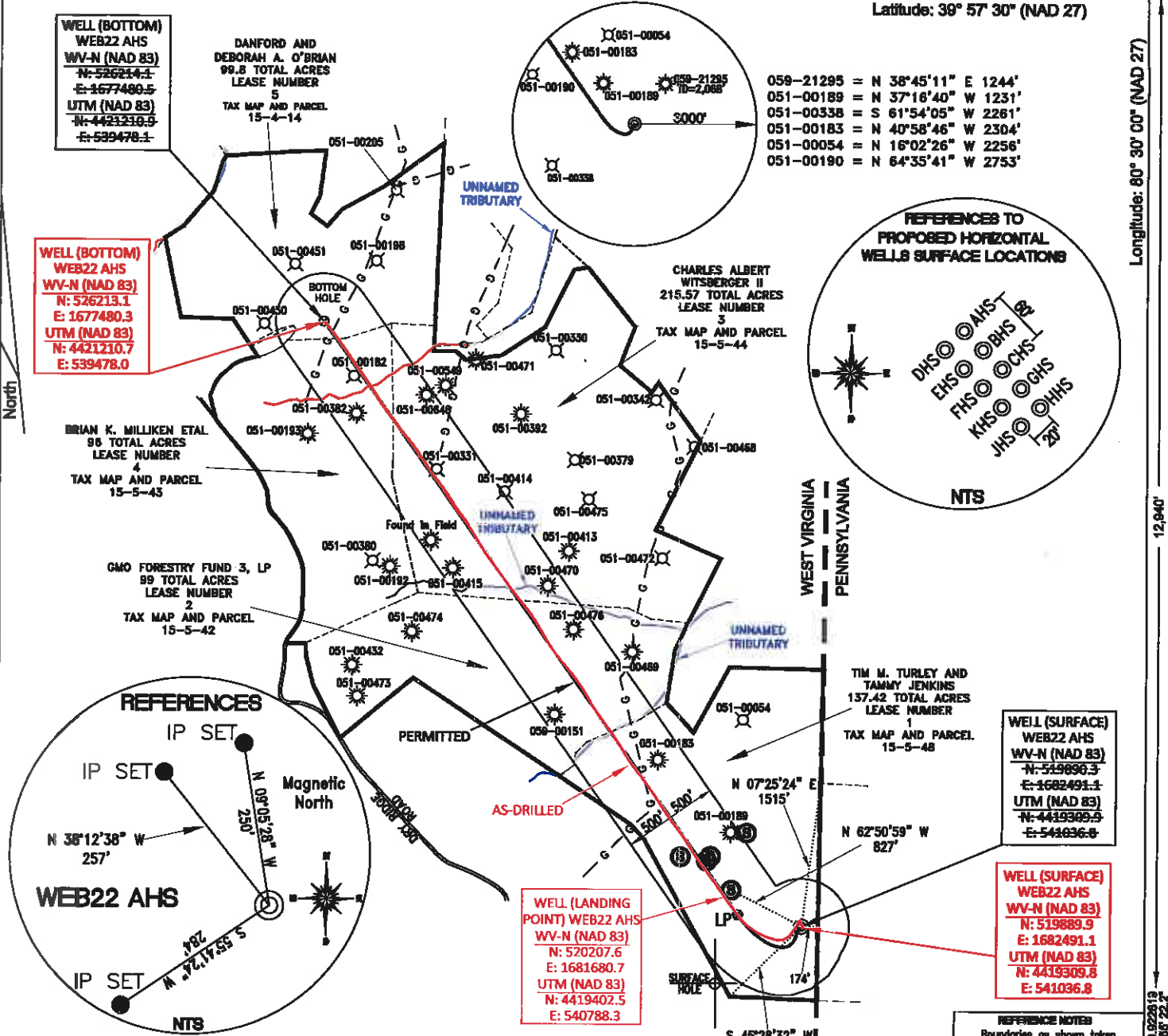
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

Received

APR 20 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

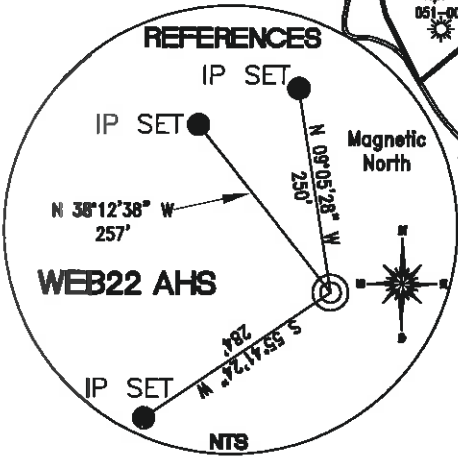
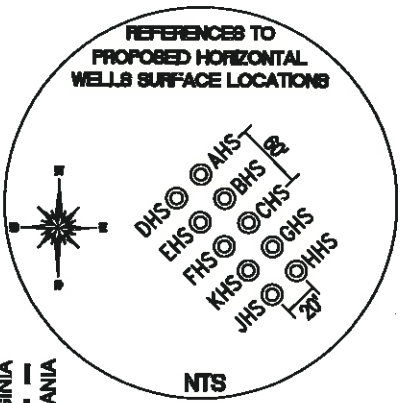
06/12/2015



WELL (BOTTOM)
WEB22 AHS
WV-N (NAD 83)
N: 526214.1
E: 1677480.5
UTM (NAD 83)
N: 4421210.7
E: 539478.3

WELL (BOTTOM)
WEB22 AHS
WV-N (NAD 83)
N: 526213.1
E: 1677480.3
UTM (NAD 83)
N: 4421210.7
E: 539478.0

059-21295 = N 38°45'11" E 1244'
051-00189 = N 37°16'40" W 1231'
051-00338 = S 61°54'05" W 2281'
051-00183 = N 40°58'46" W 2304'
051-00054 = N 16°02'26" W 2256'
051-00190 = N 64°35'41" W 2753'



WELL (LANDING POINT) WEB22 AHS
WV-N (NAD 83)
N: 520207.6
E: 1681680.7
UTM (NAD 83)
N: 4419402.5
E: 540788.3

WELL (SURFACE)
WEB22 AHS
WV-N (NAD 83)
N: 519889.3
E: 1682491.1
UTM (NAD 83)
N: 4419389.9
E: 541036.8

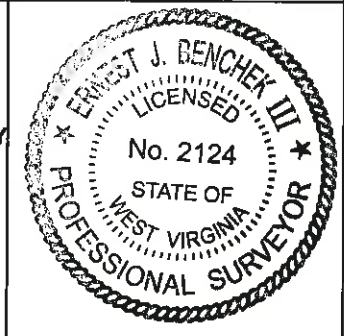
WELL (SURFACE)
WEB22 AHS
WV-N (NAD 83)
N: 519889.9
E: 1682491.1
UTM (NAD 83)
N: 4419389.9
E: 541036.8

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Ohio County, West Virginia MARCH 2013
State Plane Coordinates & NAD 83 Lat/Long by differential ultrasonic mapping grade GPS
Drafted by: E.A.M.

SURFACE HOLE LOCATION	LANDING POINT LOCATION	BOTTOM HOLE LOCATION
UTM 17-NAD 83 N) 4419399.92 E) 541036.83	UTM 17-NAD 83 N) 4419343.29 E) 540832.98	UTM 17-NAD 83 N) 4421210.93 E) 539478.09
NAD 27, WV NORTH N) 519852.88 E) 1713925.71	NAD 27, WV NORTH N) 519973.64 E) 1713258.63	NAD 27, WV NORTH N) 526176.75 E) 1708915.14

FILE #: NOB 001
DRAWING #: 2168
SCALE: PLAT - 1"=1600'
TICK MARK - 1"=2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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.
Signed:
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304
Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow
WATERSHED: WHEELING CREEK
COUNTY/DISTRICT: MARSHALL / WEBSTER
SURFACE OWNER: TIM M. TURLEY AND TAMMY JENKINS
OIL & GAS ROYALTY OWNER: TIM M. TURLEY AND TAMMY JENKINS
LEASE NUMBERS: _____
DATE: JANUARY 27, 2015
OPERATOR'S WELL #: WEB22 AHS AS-DRILLED PLAT
API WELL #: 47 51 01687
STATE COUNTY PERMIT
ELEVATION: 1,338.56'
QUADRANGLE: MAJORSVILLE WV-PA
ACREAGE: 137.42 +/-
ACREAGE: 647.79 +/- **06/12/2015**
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____
TARGET FORMATION: MARCELLUS
WELL OPERATOR: NOBLE ENERGY, INC.
ADDRESS: 333 TECHNOLOGY DRIVE SUITE 116
CITY: CANONSBURG STATE: PA ZIP CODE: 15317
ESTIMATED DEPTH: TVD: 6,913' TMD: 14,938'
DESIGNATED AGENT: STEVEN M. GREEN
ADDRESS: 500 VIRGINIA STREET EAST
CITY: CHARLESTON STATE: WV ZIP CODE: 25301