

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

API 47-051-01721 County Marshall District Webster
Quad Majorsville Pad Name WEB22 Field/Pool Name NA
Farm name Tim M. Turley and Tammy JF Well Number WEB 22 BHS
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 4419305.5 Easting 541041.2
Landing Point of Curve Northing 4419664.5 Easting 541170.3
Bottom Hole Northing 4421469.8 Easting 539856.0

Elevation (ft) 1339 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

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Date permit issued 12/13/2014 Date drilling commenced 2/10/2014 Date drilling ceased 5/31/2014
Date completion activities began 10/15/2014 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.L. 5/26/15
W.S. 6/12/2015

API 47-051 - 01721 Farm name Tim M. Turley and Tammy JF Well number WEB 22 BHS

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	X-70		Y
Surface	24	20	419.0	N	J-55 94#		Y
Coal							
Intermediate 1	17 1/2	13 3/8	1272.0	N	J-55 54.5#		Y
Intermediate 2	12 1/4	9 5/8	3414.2	N	J-55 36#		
Intermediate 3							
Production	8 3/4	5 1/2	14888.9	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	1057	15.8	1.16	1226.12	0	8
Intermediate 2	Class HALCEM	1180	16.2	1.09	1286.2	0	8
Intermediate 3							
Production	Lead ECONOCEM - Tail Class H	Lead 1030 Tail 1805	Lead 14.2 Tail 15.0	Lead 1.32 Tail 1.30	Lead 1359.6 Tail 2346.5	450.0	8
Tubing							

Drillers TD (ft) 14,898 Loggers TD (ft) 14,874

Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole

Plug back procedure N/A

Kick off depth (ft) 6931

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 centralizers - Intermediate 2 - 27 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 Received

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS APR 20 2015

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____ Office of Oil and Gas
WV Dept. of Environmental Protection

PERFORMANCE RECORD

API: 47-051-01721 Farm name: TIM M. TURLEY AND TAMMY JENKINS

Well Name: WEB-22 B

Stage No.	Perf Date	Top Perf	Bottom Perf	# of Perfs	Formation
1	10/15/2014	14615	14737	50	
2	10/16/2014	14463	14585	50	Marcellus
3	10/16/2014	14311	14433	50	Marcellus
4	10/16/2014	14159	14281	50	Marcellus
5 (screen out)	10/17/2014	14007	14129	50	Marcellus
6 Inj Test (1)	10/19/2014				Marcellus
6 Inj Test (2)	10/20/2014				Marcellus
6 Inj Test (3)	10/24/2014				Marcellus
6 Inj Test (4)	11/4/2014				Marcellus
6 TCP	11/4/2014	13856	13977	58	Marcellus
7	11/4/2014	13705	13826	58	Marcellus
8	11/5/2014	13554	13675	58	Marcellus
9	11/6/2014	13403	13524	58	Marcellus
10	11/6/2014	13252	13373	58	Marcellus
11	11/6/2014	13101	13222	58	Marcellus
12	11/7/2014	12950	13071	58	Marcellus
13	11/7/2014	12799	12920	58	Marcellus
14	11/12/2014	12648	12769	58	Marcellus
14 Inj Test (1)	11/16/2014				Marcellus
14 Inj Test (2)	11/16/2014				Marcellus
14 Reperf	11/16/2014	12657	12690	36	Marcellus
14C (Commingled)	11/17/2014	12497	12618	58	Marcellus
15	11/18/2014	12346	12467	58	Marcellus
16	11/19/2014	12195	12316	58	Marcellus
17	11/19/2014	12044	12165	58	Marcellus
18	11/20/2014	11893	12014	58	Marcellus
19	11/20/2014	11742	11863	58	Marcellus
20	11/21/2014	11591	11712	58	Marcellus
21	11/21/2014	11440	11561	58	Marcellus
22	11/21/2014	11289	11410	58	Marcellus
23	11/22/2014	11138	11259	58	Marcellus
24	11/22/2014	10987	11108	58	Marcellus
25	11/22/2014	10836	10957	58	Marcellus
26	11/23/2014	10685	10806	58	Marcellus
27	11/23/2014	10534	10655	58	Marcellus
28	11/24/2014	10383	10504	58	Marcellus
29	11/25/2014	10232	10353	58	Marcellus
30	11/26/2014	10081	10202	58	Marcellus
31	11/26/2014	9930	10051	58	Marcellus

PERFORMANCE RECORD

API: 47-051-01721

Farm name: _____

Well Name: WEB-22 B

Stage No.	Perf Date	Top Perf	Bottom Perf	# of Perfs	Formation
32	11/26/2014	9779	9900	58	Marcellus
33	11/27/2014	9628	9749	58	Marcellus
34	11/27/2014	9477	9598	58	Marcellus
35	11/28/2014	9326	9447	58	Marcellus
36	11/28/2014	9175	9296	58	Marcellus
37	11/29/2014	9024	9145	58	Marcellus
38	11/29/2014	8873	8994	58	Marcellus
39	11/29/2014	8722	8843	58	Marcellus
40	11/30/2014	8571	8692	58	Marcellus
41	11/30/2014	8420	8541	58	Marcellus
42	11/30/2014	8269	8390	58	Marcellus
43	11/30/2014	8118	8239	58	Marcellus
44	12/1/2014	7967	8088	58	Marcellus
45	12/1/2014	7816	7937	58	Marcellus
46	12/2/2014	7665	7786	58	Marcellus
47	12/2/2014	7514	7635	58	Marcellus
48	12/3/2014	7363	7484	58	Marcellus
49	12/3/2014	7212	7333	58	Marcellus
50	12/4/2014	7095	7182	50	Marcellus

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STIMULATION INFORMATION PER STAGE

API: 47-051-01721

Farm name: TIM M. TURLEY AND TAMMY JENKINS

Well Name: WEB-22 B

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other
1	10/15/2014	80.5	7,652	6,882	4,244	301,767	9,065.38	
2	10/16/2014	87.0	7,813	5,772	4,216	302,779	8,571.38	
3	10/16/2014	89.8	7,587	6,120	4,619	302,690	7,135.38	
4	10/16/2014	89.4	7,872	5,840	4,209	302,390	7,305.29	
5 (screen out)	10/17/2014	89.4	7,791	6,011	9,704	299,671	7,031.29	
6 Inj Test (1)	10/19/2014	10.5	5,210				189.19	
6 Inj Test (2)	10/20/2014	8.3	5,050				208.00	
6 Inj Test (3)	10/24/2014	4.8	5,914				451.38	
6 Inj Test (4)	11/4/2014	0.0	-				757.00	
6 TCP	11/4/2014	89.3	8,037	5,210	4,611	300,637	8,348.29	
7	11/4/2014	87.3	8,119	6,039	4,510	301,058	8,880.29	
8	11/5/2014	89.4	8,039	5,727	4,615	300,008	10,135.29	
9	11/6/2014	81.9	8,005	5,460	4,064	301,017	9,086.29	
10	11/6/2014	89.4	8,138	5,227	4,785	300,249	10,829.29	
11	11/6/2014	79.5	8,073	6,866	4,266	302,339	8,139.29	
12	11/7/2014	89.1	8,174	5,501	4,432	300,219	9,551.29	
13	11/7/2014	88.8	8,227	5,171	4,507	282,630	8,072.29	
14	11/12/2014	48.4	8,215	5,568	6,418	8,129	5,074.57	
14 Inj Test (1)	11/16/2014	5.6	8,370	-	-	-	285.00	
14 Inj Test (2)	11/16/2014	22.0	7,456	-	-	-	358.57	
14 Reperf	11/16/2014	54.3	8,559	-	6,892	114,304	12,786.57	
14C (Commingled)	11/17/2014	86.6	7,941	-	4,484	469,952	16,874.29	
15	11/18/2014	83.8	8,115	5,543	4,885	300,271	10,760.29	
16	11/19/2014	89.3	7,937	5,648	5,117	300,048	6,916.29	
17	11/19/2014	84.7	7,630	5,443	5,308	302,990	7,082.29	
18	11/20/2014	90.1	7,635	5,483	5,284	300,448	9,109.29	
19	11/20/2014	89.6	7,655	5,730	4,462	304,732	7,106.29	
20	11/21/2014	87.1	7,611	5,553	4,918	300,113	8,464.29	
21	11/21/2014	90.2	7,439	5,530	5,246	300,459	7,099.29	
22	11/21/2014	89.8	7,305	5,930	5,454	300,344	7,061.29	
23	11/22/2014	89.7	7,635	6,004	5,415	300,817	7,105.29	
24	11/22/2014	89.6	7,702	5,792	5,180	300,281	6,892.29	
25	11/22/2014	88.8	7,485	5,649	-	300,049	6,901.29	APR 20 2015
26	11/23/2014	90.2	7,661	6,331	5,258	300,680	7,430.29	
27	11/23/2014	80.1	7,246	5,678	4,668	285,151	7,649.29	
28	11/24/2014	89.5	7,511	5,638	5,167	300,596	7,114.29	Office of Oil and Gas Department of Environmental Protection
29	11/25/2014	88.7	7,788	5,743	5,354	300,965	7,403.38	
30	11/26/2014	82.8	7,460	5,913	4,702	297,571	10,831.29	
31	11/26/2014	90.2	7,182	5,825	5,334	303,536	6,920.29	
32	11/26/2014	90.6	7,269	6,339	5,330	302,727	6,863.29	
33	11/27/2014	90.1	7,203	5,771	5,072	301,450	6,916.29	

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STIMULATION INFORMATION PER STAGE

API: 47-051-01721

Farm name:

Well Name: WEB-22 B

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLS)	Amount of N ² / other
34	11/27/2014	87.5	7,124	6,303	4,998	307,431	7,444.29	
35	11/28/2014	88.9	6,951	6,020	5,350	303,882	7,238.29	
36	11/28/2014	89.9	7,220	6,772	5,595	298,254	7,093.29	
37	11/29/2014	89.5	7,045	7,873	4,784	295,377	6,939.29	
38	11/29/2014	89.4	7,131	5,479	5,541	304,229	7,019.29	
39	11/29/2014	86.6	7,245	6,065	4,701	287,093	6,727.29	
40	11/30/2014	88.4	7,109	5,865	5,350	301,949	7,328.29	
41	11/30/2014	88.5	7,024	6,082	4,914	280,739	6,736.29	
42	11/30/2014	85.9	7,313	6,071	5,165	284,867	7,589.29	
43	11/30/2014	88.9	7,213	6,382	5,452	280,803	6,598.29	
44	12/1/2014	88.2	7,202	6,734	4,984	258,899	6,586.29	
45	12/1/2014	88.9	7,098	6,579	5,117	279,542	7,248.29	
46	12/2/2014	88.9	7,182	6,627	4,820	260,602	7,782.29	
47	12/2/2014	88.0	6,953	6,327	5,514	300,353	7,277.29	
48	12/3/2014	89.5	7,084	6,285	4,921	287,744	7,214.29	
49	12/3/2014	90.0	7,070	6,281	4,705	317,228	6,892.29	
50	12/4/2014	90.6	6,797	8,267	4,472	300,490	6,420.29	

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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	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/15/2014
Job End Date:	12/4/2014
State:	West Virginia
County:	Marshall
API Number:	47-051-01721-00-00
Operator Name:	Noble Energy, Inc.
Well Name and Number:	WEB-22B
Longitude:	-80.51994400
Latitude:	39.92278000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,798
Total Base Water Volume (gal):	17,425,672
Total Base Non Water Volume:	0



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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	89.95897	
40/70 White	FTSI	proppant	Silica, Quartz	14808-60-7	100.00000	7.44269	
100 Mesh Sand	FTSI	proppant	Silica, Quartz	14808-60-7	100.00000	1.93051	
Hydrochloric Acid (HCl)	FTSI	Acid	Water	7732-18-5	63.00000	0.32243	
			Hydrogen Chloride	7647-01-0	37.00000	0.18936	
FRW-600	FTSI	Friction Reducer	Acrylamide Polymer	Trade Secret	100.00000	0.06242	
			Hydrotreated light distillate	54742-47-8	30.00000	0.01872	
			Ammonium acetate	531-61-8	6.00000	0.00374	
CS-500 SI	FTSI	Scale inhibitor	Water	7732-18-5	55.00000	0.02662	
			Acrylic Polymer	Proprietary	24.00000	0.01161	
			Ethylene glycol	107-21-1	10.00000	0.00484	
			Sodium chloride	7647-14-5	6.00000	0.00290	
			Sodium Polyacrylate	9003-04-7	5.00000	0.00242	

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ICI-3240	FTSI	Biocide	Water	7732-18-5	55.00000	0.02164	
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4	24.00000	0.00944	
HVG-1	FTSI	Water Gelling Agent	Sodium Hydroxide	1310-73-2	23.00000	0.00905	
			Guar Gum	9000-30-0	55.00000	0.00138	
			Petroleum Distillate	64742-47-8	55.00000	0.00138	
			Rafinates (Petroleum), Sorption Process	64741-85-1	50.00000	0.00125	
			Clay	1302-78-9	5.00000	0.00013	
			Surfactant	Proprietary	2.00000	0.00005	
			Clay	14808-60-7	2.00000	0.00005	
			Surfactant	154518-36-2	1.00000	0.00003	
			Surfactant	9043-30-5	1.00000	0.00003	
			Surfactant	24938-91-8	1.00000	0.00003	
FE-100L	FTSI	Iron control	Water	7732-18-5	60.00000	0.00106	
			Citric acid	77-92-9	55.00000	0.00097	
CI-150	FTSI	Acid Corrosion Inhibitor	Ethylene Glycol	107-21-1	30.00000	0.00027	
			isopropanol	67-63-0	30.00000	0.00027	
			Organic amine resin salt	Proprietary	30.00000	0.00027	
			Aromatic aldehyde	Proprietary	10.00000	0.00009	
			Quaternary ammonium compound	Proprietary	10.00000	0.00009	
			Alkylen Oxide Block Polymer	Proprietary	10.00000	0.00009	
			Dimethylformamide	68-12-2	10.00000	0.00009	
			Water	7732-18-5	5.00000	0.00005	
			Diethylene glycol	111-46-6	1.00000	0.00001	
			Aliphatic alcohol	Proprietary	0.10000	0.00000	
			Fatty Acid	Proprietary	0.10000	0.00000	
			Fatty Acid Salt	Proprietary	0.10000	0.00000	
NE-100	FTSI	Non-emulsifier	Water	7732-18-5	90.00000	0.00052	
			2-Butoxyethanol	111-76-2	10.00000	0.00006	
			2-Propanol	67-63-0	10.00000	0.00006	
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00003	
			Benzene, C10-16 Alkyl Derivatives	68648-87-3	0.04000	0.00000	
			Unsulphonated 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					


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	Ammonium Persulfate	7727-54-0	100.00000	0.00013
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)

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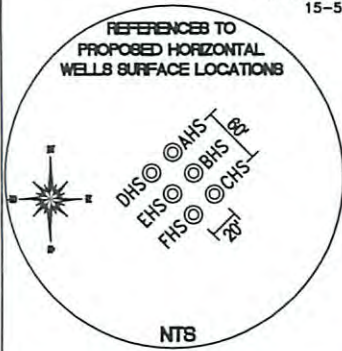
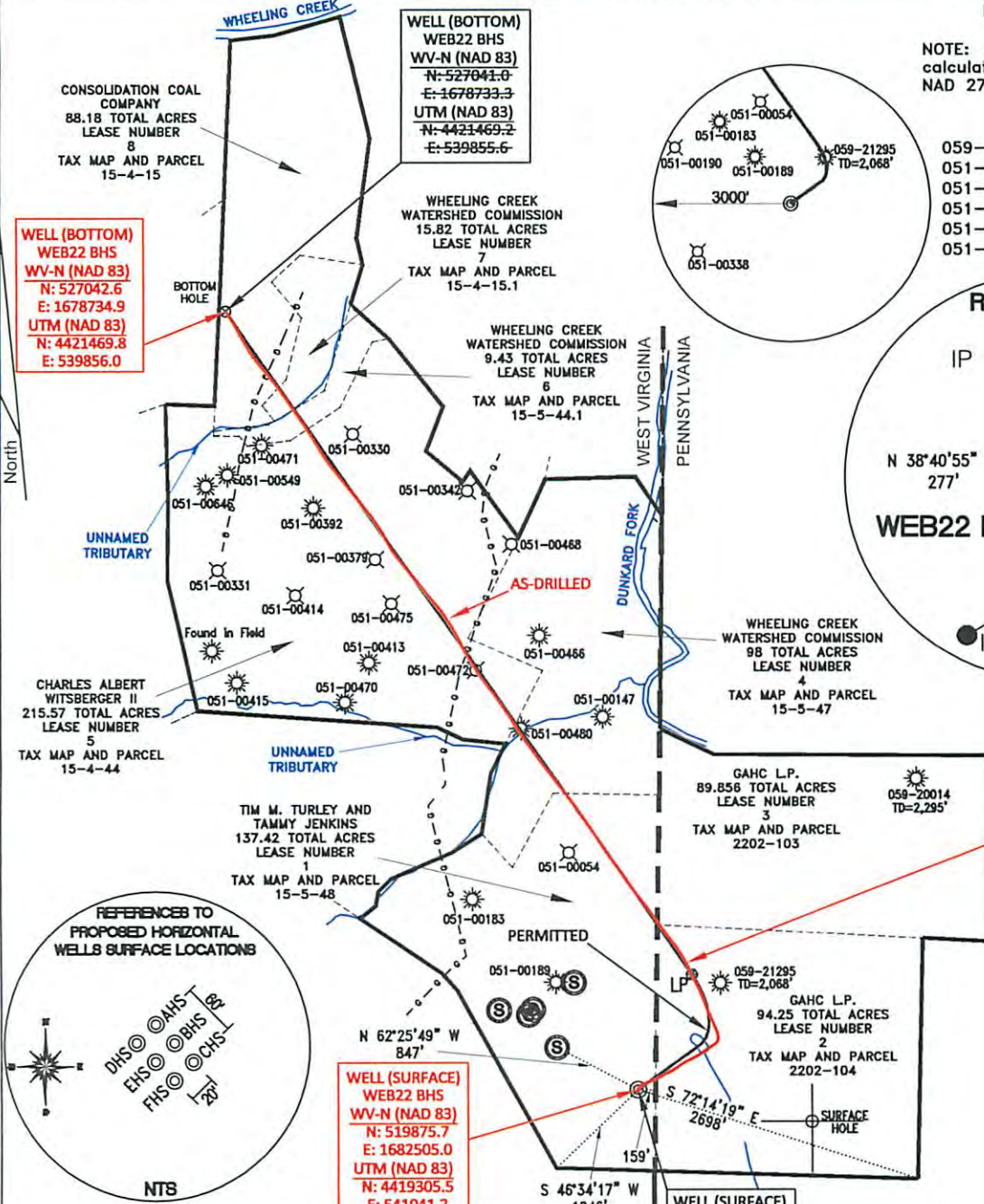
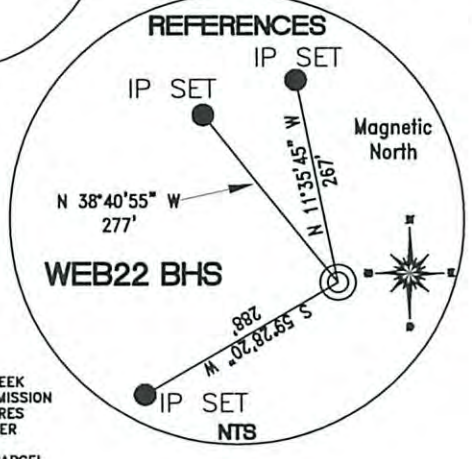
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WV Dept. of Environmental Protection

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NOTE: All coordinates have been calculated from State Plane WV North NAD 27 Coordinates

059-21295 = N 37°50'22" E 1246'
 051-00189 = N 37°23'50" W 1250'
 051-00338 = S 62°23'08" W 2267'
 051-00183 = N 41°00'43" W 2324'
 051-00054 = N 16°16'58" W 2273'
 051-00190 = N 64°27'16" W 2772'



SURFACE HOLE LOCATION	LANDING POINT LOCATION	BOTTOM HOLE LOCATION
UTM 17-NAD 83 N) 4419305.66 E) 541041.19	UTM 17-NAD 83 N) 4419631.69 E) 541188.63	UTM 17-NAD 83 N) 4421469.24 E) 539855.56
NAD 27, WV NORTH N) 519838.68 E) 1713939.80	NAD 27, WV NORTH N) 520900.45 E) 1714441.47	NAD 27, WV NORTH N) 527003.66 E) 1710167.95

WELL (SURFACE) WEB22 BHS WV-N (NAD 83)
 N: 519876.1
 E: 1682505.1
 UTM (NAD 83)
 N: 4419305.7
 E: 541041.2

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 submeter mapping grade GPS
 Drafted by: E.A.M.

FILE #: NOB 001
 DRAWING #: 2167
 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: *[Signature]*
 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 ELEVATION: 1,339.00'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE WV-PA

SURFACE OWNER: TIM M. TURLEY AND TAMMY JENKINS ACREAGE: 137.42 +/-

OIL & GAS ROYALTY OWNER: TIM M. TURLEY AND TAMMY JENKINS ACREAGE: 748.526 +/-

LEASE NUMBERS:

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 ESTIMATED DEPTH: TVD: 6,913' TMD: 14,983'

WELL OPERATOR: NOBLE ENERGY, INC. DESIGNATED AGENT: STEVEN M. GREEN

ADDRESS: 333 TECHNOLOGY DRIVE SUITE 116 ADDRESS: 500 VIRGINIA STREET EAST

CITY: CANONSBURG STATE: PA ZIP CODE: 15317 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: JANUARY 27, 2015

OPERATOR'S WELL #: WEB22 BHS AS-DRILLED PLAT

API WELL #: 47 51 01721
 STATE COUNTY PERMIT

06/12/2015