

PM

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

API 47-051-01656 County Marshall District Sandhill
Quad Majorsville Pad Name SHL-26 Field/Pool Name _____
Farm name Russell Lee and Barbara Ann Bennett Well Number SHL26BHS
Operator (as registered with the OOG) Noble Energy Inc.
Address 333 Technology Drive, Suite 116 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 4424882.534034 Easting 538581.10995
Landing Point of Curve Northing 4425164.726599 Easting 538697.150976
Bottom Hole Northing 4426959.838266 Easting 537393.251574

Elevation (ft) 1308.39 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

Date permit issued 06/26/2013 Date drilling commenced 09/28/2013 Date drilling ceased 02/07/2014
Date completion activities began 03/27/2014 Date completion activities ceased 6/5/2014
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 198', 300' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 761' to 771' Pittsburgh Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

RECEIVED
Office of Oil and Gas
SEP 11 2014
WV Department of
Environmental Protection

Reviewed by: _____

09/19/2014

API 47-051 - 01656 Farm name Russell Lee and Barbara Ann Bennett Well number SHL26BHS

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	K-55 94#		
Surface	24	20	415.7	N	J-55 94#		Y
Coal	17 1/2	13 3/8	1196	N	J-55 54.5#		Y
Intermediate 1	12 3/8	9 5/8	3218	N	K-55 36#		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2	14672	N	P-110 20#		Y
Tubing							
Packer type and depth set							

Comment Details 2 Baskets on Surface Casing

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	Type 1	490	15.6	1.19	104	0	8
Coal	Type 1	1027	15.6	1.2	223	0	8
Intermediate 1	Class A	1170	16.2	1.09	227	0	14
Intermediate 2							
Intermediate 3							
Production	Class A	2470	14.8	1.25	551	2087	12
Tubing							

Drillers TD (ft) 14,672 ft Loggers TD (ft) 14590
 Deepest formation penetrated Marcellus Plug back to (ft) Not a Pilot Hole
 Plug back procedure not a pilot Hole

Kick off depth (ft) 7389

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
 4 Centralizers on Surface casing, 10 Centralizers on Coal casing, 38 Centralizers on Intermediate casing, 234 Centralizers on Production casing.
 On the Surface, Coal, and Intermediate Strings, the centralizers are on every 3 joint of casing.
 On the Production String, they are on every 3rd from Surface to Top of Curve, then every joint until TD.

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- 051 - 01656 Farm name Russell Lee and Barbara Ann Bennett Well number SHL26BHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
PLEASE 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)
PLEASE SEE ATTACHED STIMULATION INFORMATION PER STAGE SHEET								

Please insert additional pages as applicable.

Perforation Record

API: 47-051-01656

Farm name:

Russell Lee and Barbara
Ann Bennett

Well Name: SHL-26B-HS

Stage No.	Stim Date	Top Perf	Bottom Perf	# of Perfs	Formation
TOE SLEEVE	3/7/2014	14585	14,587		Marcellus
1	3/18/2014	14426	14,520	48	Marcellus
2	3/27/2014	14275	14,377	40	Marcellus
3	3/28/2014	14125	14,227	40	Marcellus
4	3/28/2014	13975	14,077	40	Marcellus
5	3/29/2014	13825	13,927	40	Marcellus
6	3/30/2014	13675	13,777	40	Marcellus
7	3/30/2014	13525	13,627	40	Marcellus
8	3/31/2014	13375	13,477	40	Marcellus
9	4/1/2014	13225	13,327	40	Marcellus
10	4/1/2014	13075	13,177	40	Marcellus
11	4/1/2014	12925	13,027	40	Marcellus
12	4/1/2014	12775	12,877	40	Marcellus
13	4/2/2014	12625	12,727	40	Marcellus
14	4/2/2014	12475	12,577	40	Marcellus
15	4/3/2014	12325	12,427	40	Marcellus
16	4/3/2014	12175	12,277	40	Marcellus
17	4/4/2014	12025	12,127	40	Marcellus
18	4/4/2014	11875	11,977	40	Marcellus
19	4/7/2014	11725	11,827	40	Marcellus
20	4/8/2014	11575	11,677	40	Marcellus
21	4/8/2014	11425	11,527	40	Marcellus
22	4/9/2014	11275	11,377	40	Marcellus
23	4/9/2014	11125	11,227	40	Marcellus
24	4/9/2014	10975	11,077	40	Marcellus
24 REPERF	4/9/2014	10984	11,018	32	Marcellus
24C	4/10/2014	10825	10,927	40	Marcellus
25	4/10/2014	10675	10,777	40	Marcellus
26	4/10/2014	10525	10,627	40	Marcellus
27	4/11/2014	10375	10,477	40	Marcellus
28	4/12/2014	10225	10,327	40	Marcellus
29	4/12/2014	10075	10,177	40	Marcellus
30	4/12/2014	9925	10,027	40	Marcellus
31	4/13/2014	9775	9,877	40	Marcellus
31C	4/14/2014	9615	9,715	40	Marcellus
32	4/15/2014	9475	9,577	40	Marcellus
32C	4/16/2014	9325	9,427	40	Marcellus
33	4/16/2014	9175	9,277	60	Marcellus
34	4/16/2014	9025	9,127	40	Marcellus
34 REPERF	4/17/2014	9013	9,096	40	Marcellus
35	4/17/2014	8875	8,977	48	Marcellus

Perforation Record

API: 47-051-01656

Farm name:

Russell Lee and Barbara
Ann Bennett

Well Name: SHL-26B-HS

Stage No.	Stim Date	Top Perf	Bottom Perf	# of Perfs	Formation
36	4/18/2014	8725	8,827	48	Marcellus
37	4/18/2014	8575	8,677	48	Marcellus
38	4/18/2014	8425	8,527	48	Marcellus
39	4/19/2014	8275	8,377	48	Marcellus
40	4/19/2014	8125	8,227	48	Marcellus
41	4/20/2014	7975	8,077	48	Marcellus
42	4/20/2014	7825	7,927	48	Marcellus
43	4/21/2014	7675	7,777	48	Marcellus
44	4/21/2014	7525	7,627	48	Marcellus
45	4/22/2014	7375	7,477	48	Marcellus

STIMULATION INFORMATION PER STAGE

API: 47-051-01656

Farm name:

Russell Lee and Barbara Ann
Bennett

Well Name: SHL-26B-HS

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other
1 INJ TEST	3/18/2014	17.6	7,086		4,816	-	380.50	
1	3/27/2014	88.9	7,635	-	3,395	301,005	6,951.25	
2	3/27/2014	88.1	7,801	5,874	4,157	305,435	7,125.50	
3	3/28/2014	88.2	8,029	6,305	4,002	303,488	7,025.78	
4	3/28/2014	87.5	7,891	5,885	4,736	295,814	6,961.67	
5	3/29/2014	85.8	7,640	5,800	4,125	295,117	6,792.69	
6	3/30/2014	89.1	7,866	5,933	4,556	303,052	7,261.83	
7	3/30/2014	88.8	7,926	5,723	4,205	295,977	7,007.75	
8	3/31/2014	86.6	7,808	5,863	4,126	292,414	6,917.99	
9	3/31/2014	88.4	7,954	6,712	4,069	302,263	7,480.98	
10	3/31/2014	87.4	8,149	5,871	4,316	302,308	7,256.86	
11	4/1/2014	88.6	8,227	6,531	4,095	302,482	6,649.17	
12	4/1/2014	82.2	8,118	5,276	4,255	301,120	8,488.91	
13	4/2/2014	88.6	8,078	5,455	4,541	304,022	6,605.40	
14	4/2/2014	86.2	8,015	5,545	4,330	299,894	7,390.79	
15	4/3/2014	87.6	8,150	5,720	4,100	300,092	7,991.00	
16	4/3/2014	81.7	8,152	5,482	4,170	302,067	9,561.14	
17	4/4/2014	86.8	8,064	5,233	4,640	300,446	7,457.36	
18	4/5/2014	86.8	8,166	5,422	6,096	262,362	6,589.86	
18 Inj Test	4/7/2014	6	9,636		-		1,058.98	
19	4/7/2014	85.2	8,081	5,592	4,096	304,900	8,268.12	
20	4/8/2014	84.7	8,289	5,636	4,229	300,488	9,411.76	
21	4/8/2014	88.3	8,063	6,122	4,229	302,426	6,818.66	
22	4/9/2014	88.6	7,617	5,529	4,557	302,024	6,653.32	
23	4/9/2014	88.6	8,103	5,947	4,216	302,198	6,623.57	
24	4/9/2014	49	8,469	5,515	4,583	5,915	4,262.73	
24 REPERF	4/10/2014	13	8,176	6,672	5,773	3,764	2,811.15	
24C	4/10/2014	86.2	7,602	6,280	4,064	302,219	6,712.29	
25	4/10/2014	87	7,673	5,885	4,046	301,417	7,050.55	
26	4/11/2014	89.4	7,549	6,032	4,175	296,791	6,352.97	
27	4/11/2014	88.4	7,501	5,876	4,344	301,791	6,569.03	
28	4/12/2014	86.3	7,569	5,990	4,429	297,714	8,035.40	
29	4/12/2014	88.4	7,432	5,666	4,000	302,089	6,530.31	
30	4/13/2014	84.8	7,935	6,120	4,382	300,269	6,673.65	
31A	4/14/2014	61.4	8,516	5,972	4,125	3,543	2,198.04	
31C	4/14/2014	89.4	7,571	6,049	4,231	301,426	6,600.88	
32	4/15/2014	51	8,554	6,672	5,503	72,130	10,923.48	
32B	4/15/2014	22.4	8,598	6,395	5,122	6,592	5,273.11	
32C	4/16/2014	85.8	7,479	5,687	4,211	600,887	11,999.61	
33	4/16/2014	82.2	7,881	5,681	5,448	250,120	8,267.38	
34	4/17/2014	49.5	8,319	6,170	5,582	1,162	4,508.30	

STIMULATION INFORMATION PER STAGE

API: 47-051-01656

Farm name:

Russell Lee and Barbara Ann
Bennett

Well Name: SHL-26B-HS

Stage No.	Stim Date	Avg Rate (bpm)	ATP (psi)	Max BD Pressure	ISIP (psi)	Proppant (lbs)	Water (BBLs)	Amount of N ² / other
34B	4/17/2014	72	7,733	6,552	6,366	352,485	8,483.26	
35	4/18/2014	89.4	7,571	6,073	4,184	283,834	6,235.38	
36	4/18/2014	86.7	7,341	5,908	3,816	317,788	6,286.60	
37	4/18/2014	89.3	7,388	5,771	4,205	300,407	6,115.04	
38	4/19/2014	87.9	7,169	5,320	4,545	306,860	6,239.30	
39	4/19/2014	89.4	7,191	6,067	4,130	302,082	5,962.79	
40	4/20/2014	89.4	7,084	6,701	4,219	301,242	5,987.66	
41	4/20/2014	83.6	7,496	5,825	4,261	299,181	8,006.63	
42	4/20/2014	88.6	7,696	5,974	4,046	302,434	6,199.21	
43	4/21/2014	88.4	7,489	6,733	4,484	302,594	6,132.93	
44	4/22/2014	86.8	6,829	5,623	4,197	300,632	6,130.60	
45	4/22/2014	87.7	6,964	6,079	4,325	303,277	5,770.51	

API 47- 051 . 01656 Farm name Russell Lee and Barbara Ann Bennett Well number SHL26BHS

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6629.4</u>	TVD	<u>14672</u> MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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 2450 mcfpd Oil 74 bpd NGL 111 bpd Water 1273 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
PLEASE SEE FORMATIONS SHEET					

Please insert additional pages as applicable.

Drilling Contractor Nabors Drilling USA, LP
Address 515 West Greens Rd, Suite 1000 City Houston State TX Zip 77067-4525

Logging Company Horizon Well Logging, LLC
Address 7136 S. Yale Ave. Suite 414 City Tulsa State OK Zip 74136

Cementing Company CalFrac
Address 717 17th St., Suite 1445 City Denver State CO Zip 80202

Stimulating Company Halliburton Energy Services
Address 121 Champion Way, Suite 210 City Canonsburg State PA Zip 15317

Please insert additional pages as applicable.

Completed by Dee Swiger Telephone 724-820-3061
Signature [Signature] Title Reg. Analyst Date 8/5/14

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

FORMATIONS

API 47-051-5101656		Farm Name		Well Name		SHL26B
Russell Lee and Barbara Ann Bennett						
Lithology/Formation	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, H2S, ETC)	
Shale	0	808	0	808		
Pittsburgh Coal	808	817	808	817		
Shale and Sandstone	817	1264	817	1264		
Dunkard Sand	1264	1275	1264	1275		
Shale	1275	1446	1275	1446		
Gas Sand	1446	1485	1446	1485		
Shale	1485	1577	1485	1578		
1st Salt Sand	1577	1601	1578	1602		
Shale	1601	1610	1602	1611		
2nd Salt Sand	1610	1655	1611	1656		
Shale	1655	1738	1656	1739		
Maxton Sand	1738	1750	1739	1751		
Shale	1750	1793	1751	1794		
Big Lime	1793	1873	1794	1875		
Big Injun	1873	2067	1875	2069		
Price	2067	2425	2069	2427		
Murrysville	2425	2439	2427	2441		
Shale	2439	2636	2441	2638		
50' Sand	2636	2638	2638	2640		
Shale	2638	2691	2640	2693		
30' Sand	2691	2700	2693	2702		
Shale	2700	2742	2702	2744		
Gordon Stray	2742	2757	2744	2759		
Shale	2757	2793	2759	2795		
Gordon	2793	2806	2795	2808		
Shale	2806	2902	2808	2904		
Fifth Sand	2902	2936	2904	2938		
Shale	2936	3342	2938	3344		
Speechley Sand	3342	3370	3344	3372		
Shale	3370	4378	3372	4380		
Warren Sand	4378	4387	4380	4389		
Shale	4387	5045	4389	5047		
Java Shale	5045	5216	5047	5218		
Pipe Creek Shale	5216	5273	5218	5275		
Angola Shale	5273	5898	5275	5903		
Rhinestreet	5898	6314	5903	6435		
Cashaqua	6314	6405	6435	6576		
Middlesex	6405	6440	6576	6633		
West River	6440	6492	6633	6726		
Burkett	6492	6515	6726	6770		
Tully Limestone	6515	6545	6770	6832		
Hamilton	6545	6656	6832	7148		
Marcellus	6656	6706	7148	not encountered	Gas	

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/18/2014
Job End Date:	4/22/2014
State:	West Virginia
County:	Marshall
API Number:	47-051-01656-00-00
Operator Name:	Noble Energy, Inc.
Well Name and Number:	SHL26 B
Longitude:	-80.54840000
Latitude:	39.97314400
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,629
Total Base Water Volume (gal):	14,828,013
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
Fresh Water	Operator	Base Fluid					
			Fresh Water	7732-18-5	100.00000	89.02451	Density = 8.400
SAND - PREMIUM WHITE	Halliburton	Proppant					
			Crystalline silica, quartz	14808-60-7	100.00000	7.77870	
SAND - COMMON WHITE	Halliburton	Proppant					
			Crystalline silica, quartz	14808-60-7	100.00000	1.99840	
HYDROCHLORIC ACID 5-10%	Halliburton	Solvent					
			Hydrochloric acid	7647-01-0	10.00000	0.10744	
FR-66	Halliburton	Friction Reducer					
			Hydrotreated light petroleum distillate	34742-47-8	30.00000	0.01212	
FE-1A ACIDIZING COMPOSITION	Halliburton	Additive					
			Acetic anhydride	108-24-7	100.00000	0.00596	
			Acetic acid	54-19-7	60.00000	0.00357	
FDP-S1078-12	Halliburton	Friction Reducer					
			Hydrotreated light petroleum distillate	34742-47-8	30.00000	0.00347	
			Alcohols, C12-16, ethoxylated	38551-12-2	10.00000	0.00116	

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			Ammonium chloride	12125-02-9	10.00000	0.00116	
			9-Octadecenamide, n,n-bis-2-(hydroxy-ethyl)-, (Z)	93-83-4	5.00000	0.00058	
HYDROCHLORIC ACID 10-30%	Halliburton	Solvent					
			Hydrochloric acid	7647-01-0	30.00000	0.00576	
BE-9	Halliburton	Biocide					
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00000	0.00384	
LP-65 MC	Halliburton	Scale Inhibitor					
			Ammonium chloride	12125-02-9	10.00000	0.00235	
LOSURF-300 NONIONIC SURFACTANT	Halliburton	Surfactant					
			Isopropanol	67-63-0	60.00000	0.00121	
			Light aromatic solvent	64742-95-6	30.00000	0.00061	
			Ethoxylated nonylphenol	Confidential	10.00000	0.00020	Denise Tuck, Halliburton 3000 N. Sam Houston Pkwy E., Houston, TX 77032 281-871-6226
LGC-36 UC	Halliburton	Liquid Gel Concentrate					
			Guar gum	9000-30-0	60.00000	0.00075	
			Naphtha, hydrotreated heavy	64742-48-9	60.00000	0.00075	
LCA-1	Halliburton	Solvent					
			Paraffinic solvent	Confidential	100.00000	0.00141	
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
			Methanol	67-56-1	60.00000	0.00057	
			Propargyl alcohol	107-19-7	10.00000	0.00010	
SP BREAKER	Halliburton	Breaker					
			Sodium persulfate	7775-27-1	100.00000	0.00002	
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.							
		Other Ingredient(s)					
			Water	7732-18-5		1.17377	
		Other Ingredient(s)					
			Organic phosphonate	Confidential		0.01411	
		Other Ingredient(s)					
			Polyacrylamide copolymer	Confidential		0.01212	
		Other Ingredient(s)					
			Polyacrylate	Confidential		0.00347	
		Other Ingredient(s)					
			Inorganic salt	Confidential		0.00347	
		Other Ingredient(s)					
			Sodium chloride	7647-14-5		0.00202	
		Other Ingredient(s)					
			Ammonium chloride	12125-02-9		0.00202	
		Other Ingredient(s)					

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		Alcohols, C12-16, ethoxylated	58551-12-2		0.00202	
	Other Ingredient(s)					
		Fatty acid tall oil amide	Confidential		0.00202	
	Other Ingredient(s)					
		Fatty acid ester	Confidential		0.00058	Denise Tuck, Halliburton 3000 N. Sam Houston Pkwy E., Houston, TX 77032 281-871-6226
	Other Ingredient(s)					
		Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8		0.00040	
	Other Ingredient(s)					
		Sorbitan monooleate polyoxyethylene derivative	9005-65-6		0.00040	
	Other Ingredient(s)					
		Formaldehyde	50-00-0		0.00024	
	Other Ingredient(s)					
		Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite	58953-58-2		0.00006	
	Other Ingredient(s)					
		Fatty alcohol polyglycol ether surfactant	9043-30-5		0.00001	
	Other Ingredient(s)					
		Crystalline silica, quartz	14808-60-7		0.00000	
	Other Ingredient(s)					
		Sodium sulfate	7757-82-6		0.00000	

5101656

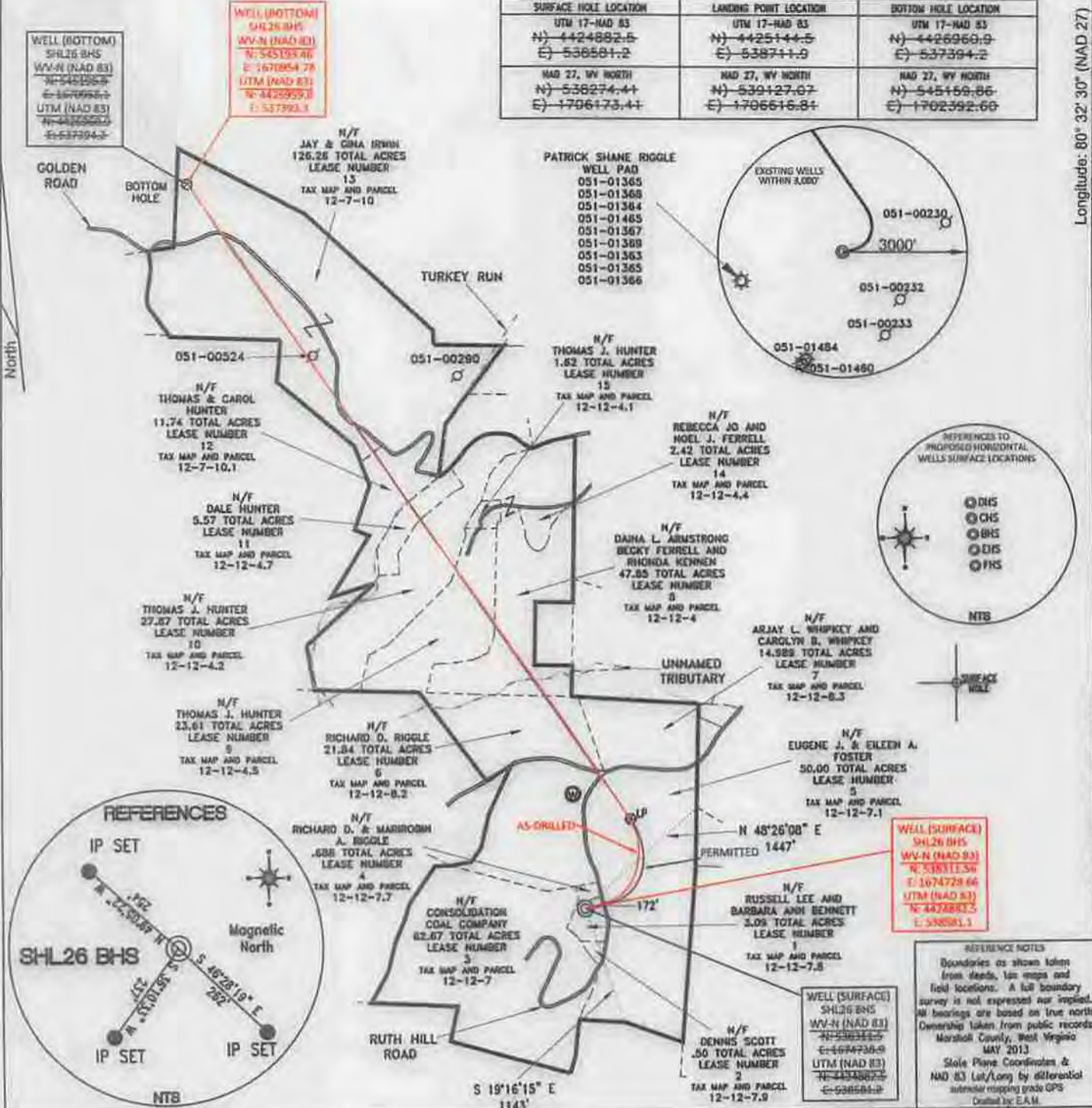
* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** 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)

SURFACE HOLE LOCATION	LANDING POINT LOCATION	BOTTOM HOLE LOCATION
UTM 17-NAD 83 N) 4424882.5 E) 538581.2	UTM 17-NAD 83 N) 4425144.5 E) 538711.9	UTM 17-NAD 83 N) 4426960.9 E) 537394.2
NAD 27, WY NORTH N) 538274.44 E) 1706173.44	NAD 27, WY NORTH N) 539127.07 E) 1706616.84	NAD 27, WY NORTH N) 545169.86 E) 1702392.60



FILE #: NOB 002
DRAWING #: 2219
SCALE: PLAT - 1" = 1400'
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 5TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: WHEELING CREEK
COUNTY/DISTRICT: MARSHALL / SANDHILL
SURFACE OWNER: RUSSELL LEE AND BARBARA ANN BENNETT
OIL & GAS ROYALTY OWNER: JAMES O. WHIPKEY ET AL
LEASE NUMBERS:

DATE: AUGUST 8, 2014
OPERATOR'S WELL #: SHL26 BHS AS-DRILLED
API WELL #: 47 STATE 51 COUNTY PERMIT 011656

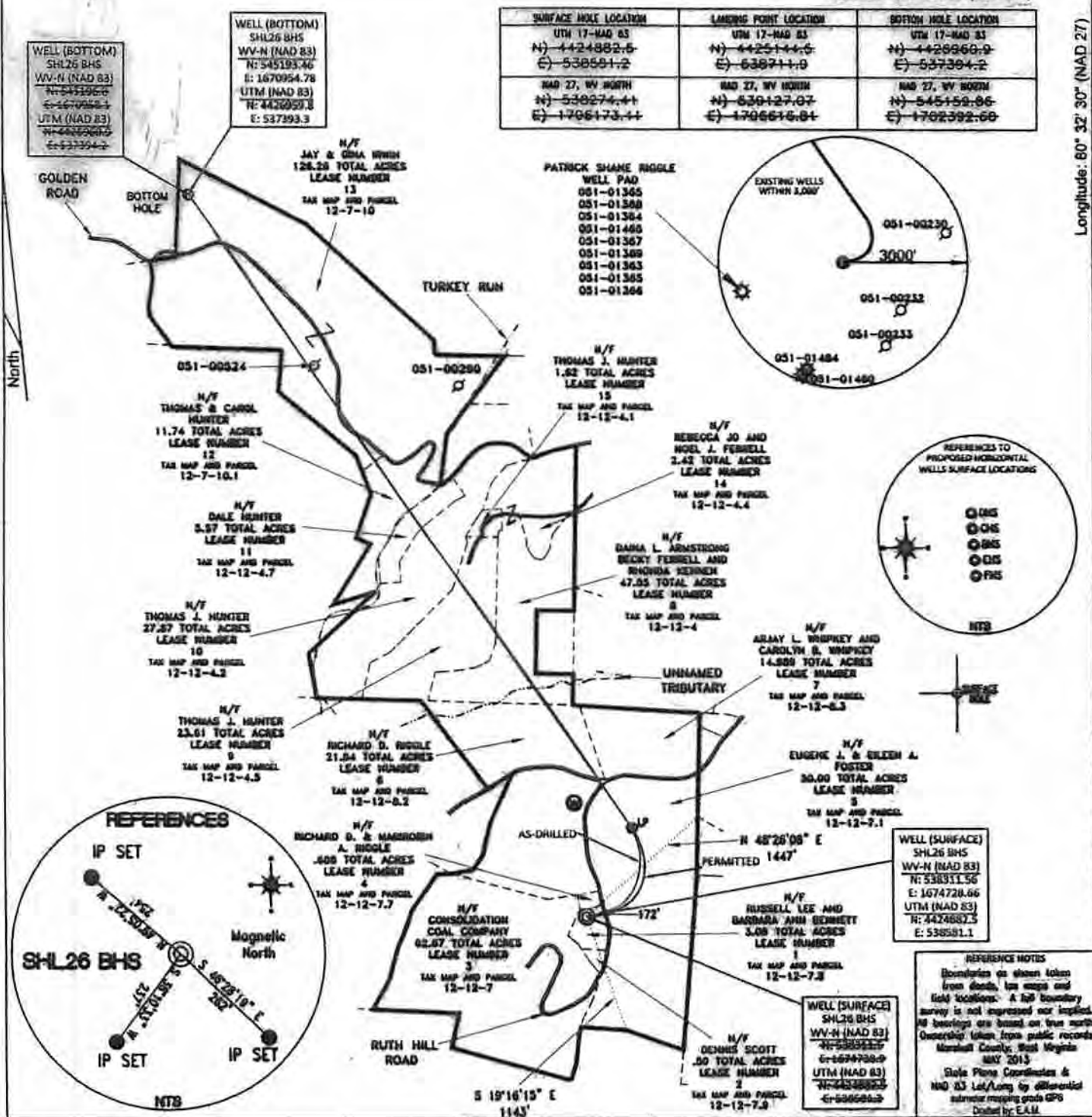
ELEVATION: 1,320'
QUADRANGLE: MAJORSVILLE WV-PA
ACREAGE: 3.09 +/-
ACREAGE: 317.83 +/- 09/19/2014

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: 6,698' TMD: 14,783'
DESIGNATED AGENT: STEVEN M. GREEN
ADDRESS: 500 VIRGINIA STREET EAST
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

SURFACE HOLE LOCATION	LANDING POINT LOCATION	BOTTOM HOLE LOCATION
UTM 17-NAD 83 N) 442882.5 E) 538581.2	UTM 17-NAD 83 N) 4425144.5 E) 638711.9	UTM 17-NAD 83 N) 4429869.9 E) 537394.2
NAD 27, WV NORTH N) 538274.41 E) 1786173.44	NAD 27, WV NORTH N) 639127.07 E) 1796616.81	NAD 27, WV NORTH N) 545159.86 E) 1792392.68



FILE #: NOB 002
DRAWING #: 2219
SCALE: PLAT - 1" = 1400'
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
COUNTY/DISTRICT: MARSHALL / SANDHILL
SURFACE OWNER: RUSSELL LEE AND BARBARA ANN BENNETT
OIL & GAS ROYALTY OWNER: JAMES O. WHIPKEY ET AL
LEASE NUMBERS:

DATE: AUGUST 8, 2014
OPERATOR'S WELL #: SHL26 BHS AS-DRILLED
API WELL #: 47 51 01656
STATE COUNTY PERMIT

ELEVATION: 1,320'
QUADRANGLE: MAJORSVILLE WV-PA
ACREAGE: 3.09 +/-
ACREAGE: 317.83 +/- 09/19/2014

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: 8,698' TMD: 14,783'
DESIGNATED AGENT: STEVEN M. GREEN
ADDRESS: 500 VIRGINIA STREET EAST
CITY: CHARLESTON STATE: WV ZIP CODE: 25301