

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

API 47-095-02195FH6A County Tyler District Centerville
Quad Shirley 7.5' Pad Name SHR3HS Field/Pool Name SHR3HS
Farm Name NOBLE ENERGY, INC. Well Number SHR3DHS - Fracture
Operator (as registered with the OOG) CNX Gas Company LLC
Address P.O. Box 1248 City Jane Lew State WV Zip 26378

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top Hole Northing 4,362,756.34 m Easting 514,379.72 m
Landing Point of Curve Northing 4,362,652.12 m Easting 514,565.25 m
Bottom Hole Northing 4,360,162.88 m Easting 515,522.30 m

Elevation (ft) 751" 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

Drilled 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 08/07/2017 Date drilling commenced 09/29/2014 Date drilling ceased 10/03/2014
Date completion activities began 09/09/2017 Date completion activities ceased 09/18/2017
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 342' Open mine(s) (Y/N) depths N
Salt water depth(s) ft None Noted for Offsets Void(s) encountered (Y/N) depths N
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by: AS
3/14/2018

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement Circulate (Y/N) * Provide details to the right *
Conductor	24"	20"	40'	New	H-40 / 40'		
Surface	17 1/2"	13 3/8"	486.0'	New	K-55 / 486.0'		Y
Coal							
Intermediate 1	13 3/8"	9 5/8"	2192.6'	New	J-55 / 2192.6'		Y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	15581.9'	New	P-110 / 15581.9'		Y
Tubing	5 1/2"	2 3/8"	6645.90'	New	P-110 4.7# / 6645.90'		
Packer Type and Depth Set		None					

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	Class A	458 sks	15.60	1.18	540.4		8
Coal							
Intermediate 1	Class A	841 sks	15.60	1.18	992.4		8
Intermediate 2							
Intermediate 3							
Production	Class A	2240 sks	14.50	1.26	2822.4	1544	8
Tubing							

Drillers TD (ft) 6348' Loggers TD (ft) 6664'

Deepest formation penetrated: Marcellus Plug back to (ft) _____

Plug back procedure: _____

Kick Off Depth (ft) 4773'

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. Surface - 4 centralizers used. Bow spring centralizers on the first two joints and then every third joint to 100' from surface. Intermediate - 27 centralizers used. Bow spring centralizers on the first two joints and then every third joint to 100' from surface. Production - 265 centralizers used. Rigid Bow spring centralizer every joint to KOP, rigid bow spring centralizer every third joint from KOP to top of cement.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Plug And Perforation Shot Hole *JOB 3/14/2018*

WAS WELL COMPLETED OPEN HOLE Yes No DETAILS _____

WERE TRACERS USE Yes No TYPES OF TRACER(S) USED _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number Of Perforations	Formation(s)
1	9/9/2017	15295	15402	40	Marcellus
2	9/9/2017	15070	15252	40	Marcellus
3	9/9/2017	14845	15027	40	Marcellus
4	9/9/2017	14620	14802	40	Marcellus
5	9/10/2017	14395	14577	40	Marcellus
6	9/10/2017	14170	14352	40	Marcellus
7	9/10/2017	13945	14127	40	Marcellus
8	9/11/2017	13720	13902	40	Marcellus
9	9/11/2017	13207	13389	40	Marcellus
9	9/11/2017	13495	13677	40	Marcellus
11	9/11/2017	12982	13164	40	Marcellus
12	9/11/2017	12757	12939	40	Marcellus
13	9/12/2017	12532	12714	40	Marcellus
14	9/12/2017	12307	12489	40	Marcellus
15	9/12/2017	12082	12264	40	Marcellus
16	9/13/2017	11857	12039	40	Marcellus
17	9/13/2017	11632	11814	40	Marcellus
18	9/13/2017	11407	11589	40	Marcellus
19	9/13/2017	11182	11364	40	Marcellus
20	9/14/2017	10957	11139	40	Marcellus
21	9/14/2017	10732	10914	40	Marcellus
22	9/14/2017	10507	10689	40	Marcellus
23	9/14/2017	10282	10464	40	Marcellus
24	9/14/2017	10057	10239	40	Marcellus
25	9/15/2017	9832	10014	40	Marcellus
26	9/15/2017	9607	9789	40	Marcellus
27	9/15/2017	9381	9563	40	Marcellus
28	9/16/2017	9155	9337	40	Marcellus
29	9/16/2017	8929	9111	40	Marcellus
30	9/16/2017	8703	8885	40	Marcellus
31	9/16/2017	8477	8659	40	Marcellus
32	9/17/2017	8251	8433	40	Marcellus
33	9/17/2017	8025	8207	40	Marcellus
34	9/17/2017	7799	7981	40	Marcellus
35	9/17/2017	7573	7755	40	Marcellus
36	9/18/2017	7366	7532	40	Marcellus
37	9/18/2017	7162	7328	40	Marcellus
38	9/18/2017	6939	7121	40	Marcellus
39	9/18/2017	6714	6896	40	Marcellus

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12/27/2017

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STIMULATION INFORMATION PER STAGE

Stage No.	Stimulations Date	Avg Pump Rate (BPM)	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen / other (gals)
1	9/9/2017	78	8106	7235	3777	400680	8876	3523
2	9/9/2017	86	8332	6169	4910	318240	6736	3339
3	9/9/2017	84	7908	6328	4039	401980	7947	3367
4	9/10/2017	78	8337	7453	3835	400020	7292	3375
5	9/10/2017	82	8231	7552	3801	400600	7673	3366
6	9/10/2017	76	8241	7094	4649	404460	1347	9666
7	9/11/2017	90	7975	6440	4533	400360	8879	3500
8	9/11/2017	86	8047	6550	4504	400380	6855	3409
9	9/11/2017	89	8197	6976	4620	389900	7362	3335
10	9/11/2017	86	8076	6815	4271	404880	6986	3324
11	9/11/2017	92	8151	6278	4387	400940	7099	3356
12	9/11/2017	86	8112	6863	4910	373080	6502	3301
13	9/12/2017	88	8178	7179	4562	400900	7003	3339
14	9/12/2017	83	7901	7169	4794	368880	1034	6625
15	9/12/2017	82	7725	7034	4358	400240	7806	3478
16	9/13/2017	83	8080	7533	4852	400260	8903	3867
17	9/13/2017	88	7582	7056	4682	400660	7947	3511
18	9/13/2017	87	7616	6596	4823	383160	7021	3320
19	9/13/2017	86	7421	6778	4184	400280	7209	3457
20	9/14/2017	82	7568	7810	5041	399740	6785	3357
21	9/14/2017	82	7656	6970	3823	400220	6841	3294
22	9/14/2017	81	7643	6186	4018	394520	6841	3359
23	9/14/2017	88	7672	7015	4097	400740	7246	3218
24	9/15/2017	84	7675	6839	4387	402000	8978	6559
25	9/15/2017	86	7447	7306	4712	363700	6066	3230
26	9/15/2017	85	7150	6256	4184	400880	8857	3535
27	9/16/2017	83	7175	6529	3920	399180	8799	3353
28	9/16/2017	83	7247	6134	4774	368460	7780	3378
29	9/16/2017	87	6975	5538	5078	400780	7921	3303
30	9/16/2017	86	6863	6051	5174	400340	8006	3290
31	9/17/2017	88	6891	6132	4998	401060	7830	3249
32	9/17/2017	87	7027	6131	4332	404780	8676	3429
33	9/17/2017	91	6993	5467	4236	400720	7848	3297
34	9/17/2017	88	6821	6438	4527	399720	7728	3360
35	9/17/2017	86	7026	6489	3952	400860	7951	3432
36	9/18/2017	88	7040	6713	4112	400180	7837	3289
37	9/18/2017	87	7028	6954	4087	400840	7566	3340
38	9/18/2017	87	6763	5819	3797	400160	6883	3119
39	9/18/2017	87	6575	5971	4067	399320	6588	3367

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LITHOLOGY / FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY TYPE OF FLUID (FRESHWATER,BRINE,GAS,H2S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	TVD	TVD	MD	MD	
SHALE	0	766			
PITTSBURGH COAL	766	775			
SHALE/SANDSTONE	775	1222			
DUNKARD SAND	1222	1233			
SHALE	1233	1404			
GAS SAND	1404	1443			
SHALE	1443	1535			
1ST SALT SAND	1535	1559			
SHALE	1559	1568			
2ND SALT SAND	1568	1613			
SHALE	1613	1696			
MAXTON SAND	1696	1708			
SHALE	1708	1751			
BIG LIME	1751	1831			
BIG INJUN	1831	2025			
PRICE	2025	2383			
MURRYSVILLE	2383	2397			
SHALE	2397	2594			
50' SAND	2594	2596			
SHALE	2596	2649			
30' SAND	2649	2658			
SHALE	2658	2700			
GORDON STRAY	2700	2715			
SHALE	2715	2751			
GORDON	2751	2764			
SHALE	2764	2860			
FIFTH SAND	2860	2894			
SHALE	2894	3300			
SPEECHLEY SAND	3300	3328			
SHALE	3328	4336			
WARREN SAND	4336	4345			
SHALE	4345	5003			
JAVA SHALE	5003	5174			
PIPE CREEK SHALE	5174	5231			
ANGOLA SHALE	5231	5856			
RHINESTREET	5856	6272			
CASHAQUA	6272	6363			
MIDDLESEX	6363	6396			

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	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	TVD	TVD	MD	MD	
WEST RIVER	6396	6440			
BURKETT	6440	6472			
TULLY LIMESTONE	6472	6503			
HAMILTON	6503	6614			
MARCELLUS	6614	6664			
ONONDAGA	6664	6667			

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NOBLE ENERGY

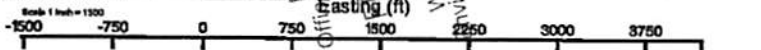
Location: Tyler County, WV
Field: Tyler
Facility: SHR-3 Pad

Slot: Slot D
Well: SHR-3D-HS
Wellbore: SHR-3D-HS PWB

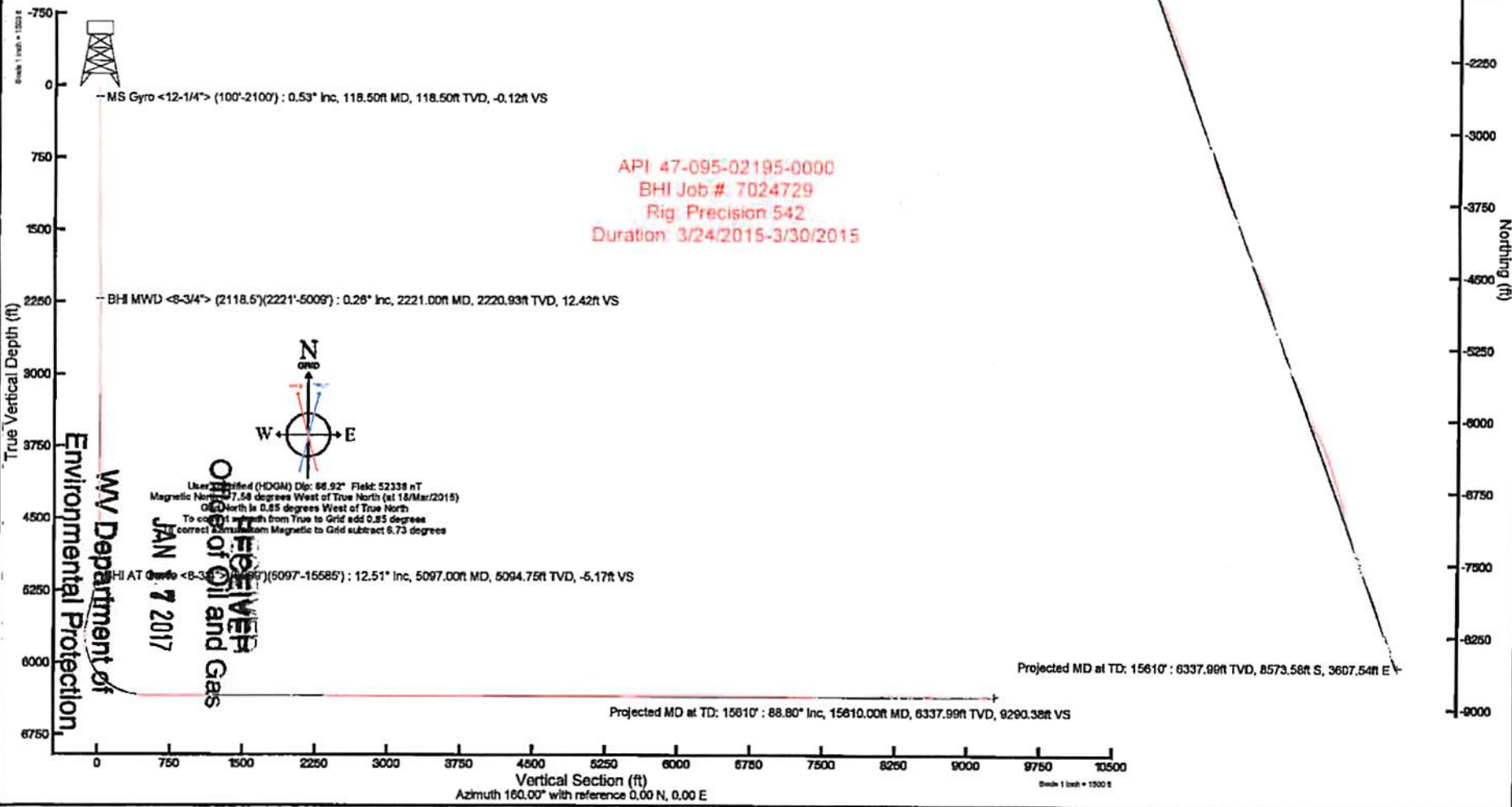


Plot reference wellpath is SHR-3D-HS PWB Rev A.0	
True vertical depths are referenced to Precision 542 (RKB)	Grid System: NAD83 / Lambert West Virginia SP, datum Zone 4731, US feet
Measured depths are referenced to Precision 542 (RKB)	North Reference: Grid north
Precision 542 (RKB) to Mean Sea Level: 770.57 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot Slot D): -752.07 feet	Depths are in feet
Contributor see in foot referenced to Slot	Created by subbyte on 08/02/2016

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
SHR-3 Pad	1623298.030	335743.440	39°24'50.900"N	80°50'00.030"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot D	-5.93	58.57	1623297.600	335737.510
Precision 542 (RKB) to Mud line (At Slot Slot D)			18.6R	
Mean Sea Level to Mud line (At Slot Slot D)			-752.07R	
Precision 542 (RKB) to Mean Sea Level			770.57R	



BHI AT Curve <8-3/4"> (5009')(5097'-15585') : 5094.75R TVD, 12.19R N, 18.36R E
 BHI MWD <8-3/4"> (2118.5')(2221'-5009') : 2220.93R TVD, 13.20R S, 0.06R E
 MS Gyro <12-1/4"> (100'-2100') : 118.50R TVD, 0.03R S, 0.46R W Slot D



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ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes
Software System: WellArchitect® 4.0.1

REFERENCE WELLPATH IDENTIFICATION

Operator NOBLE ENERGY
Area Tyler County, WV
Field Tyler
Facility SHR-3 Pad
Slot Slot D
Well SHR-3D-HS
Wellbore SHR-3D-HS AWB
Wellpath SHR-3D-HS AWP Proj: 15610'
Sidetrack (none)

REPORT SETUP INFORMATION

Projection NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet
North Refe Grid
Scale 0.999948
Convergen 0.85° West
Software S WellArchitect® 4.0.1
User Edsaryar
Report Ger 06/Apr/2015 at 13:43
DataBase/! WellArchitectEasternDB/ev89.xml

WELLPATH	Local North	Local East	Easting	Northing	Latitude	Longitude
	[ft]	[ft]	[US ft]	[US ft]		
Slot Locati	-5.93	59.57	1623358	335737.5	39°24'50.8	80°49'59.270"W
Facility Ref			1623298	335743.4	39°24'50.9	80°50'00.030"W
Field Refer			609601.2		0 38°23'48.7	84°21'09.765"W

WELLPATH DATUM

Calculation Minimum curvature
Horizontal Slot
Vertical Re Precision 542 (RKB)
MD Refere Precision 542 (RKB)
Field Vertic Mean Sea Level
Precision S 770.57ft
Precision S 770.57ft
Precision S 18.50ft
Section Ori N 0.00, E 0.00 ft
Section Azi 160.00°

WELLPATH DATA † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dis	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
0	0	265.67	0	0	0	0	1623358	335737.5	39°24'50.8	80°49'59.2	0	0	0	0	0
18.5	0	265.67	18.5	0	0	0	1623358	335737.5	39°24'50.8	80°49'59.2	0	0	0	0	0
118.5	0.53	265.67	118.5	-0.12	-0.03	-0.46	1623357	335737.5	39°24'50.8	80°49'59.2	0.46	265.67	0.53	0.53	0
218.5	0.39	121.24	218.5	0.02	-0.25	-0.63	1623357	335737.3	39°24'50.8	80°49'59.2	0.68	248.686	0.88	-0.14	-144.43
318.5	0.35	41.9	318.5	0.14	-0.2	-0.14	1623357	335737.3	39°24'50.8	80°49'59.2	0.24	214.905	0.47	-0.04	-79.34
418.5	0.19	172.52	418.5	0.16	-0.13	0.09	1623358	335737.4	39°24'50.8	80°49'59.2	0.16	146.085	0.5	-0.16	130.62
518.5	0.49	194.29	518.49	0.67	-0.71	0.01	1623358	335736.8	39°24'50.8	80°49'59.2	0.71	179.583	0.32	0.3	21.77
618.5	0.39	157.88	618.49	1.36	-1.44	0.03	1623358	335736.1	39°24'50.8	80°49'59.2	1.44	178.895	0.29	-0.1	-36.41

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15532	88.65	153.16	6336.29	9212.69	-8502.78	3574.89	1626932	327235.2	39°23'27.3	80°49'12.1	9223.73	157.196	3.27	-2.52
15585	88.8	156.31	6337.47	9265.44	-8550.69	3597.5	1626955	327187.3	39°23'26.8	80°49'11.8	9276.66	157.182	5.95	0.28
15610	88.8	156.31	6337.99	9290.38	-8573.58	3607.54	1626965	327164.4	39°23'26.6	80°49'11.7	9301.65	157.18	0	0

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TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	Comment
SHR-3D-HS BHL Rev-1		6348	-8580.35	3592.21	1626950	327157.6	39°23'26.5	80°49'11.9	point	
SHR-3D-HS LP Rev-1		6348	-325.01	587.5	1623945	335412.5	39°24'47.7	80°49'51.7	point	

WELLPATH COMPOSITION Ref Wellbore: SHR-3D-HS AWB Ref Wellpath: SHR-3D-HS AWP Proj: 15610'

Log Name/	Start MD [ft]	End MD [ft]	Pos Unc	Model
D1_MS Gyro	18.5	2118.5		Generic gyro - northseeking (Standard)
D2_BHI Mv	2118.5	5009		NaviTrak (MagCorr)
D3_BHI AT	5009	15585		NaviTrak (AT Curve Short Spaced)
Projection	15585	15610		Blind Drilling (std)

COMMENTS

Wellpath general comments

API: 47-095-02195-0000

BHI Job #: 7024729

Rig: Precision 542

Duration: 3/24/2015-3/30/2015

MS Gyro <12-1/4> (100'-2100")

BHI MWD <8-3/4> (2118.5')(2221'-5009")

BHI AT Curve <8-3/4> (5009')(5097'-15585")

Projected MD at TD: 15610'

Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	9/9/2017
Job End Date:	9/18/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02195-00-00
Operator Name:	CONSOL Energy Inc.
Well Name and Number:	SHRL3DHS
Latitude:	39.41420600
Longitude:	-80.83295800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,348
Total Base Water Volume (gal):	13,316,100
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	Ascent	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.99032	None
Sand (Proppant)	Keane	Proppant	Crystalline silica: Quartz (SiO2)	14808-60-7	100.00000	12.02806	None
Hydrochloric Acid (7.5%)	Keane	Acid Inhibitor	Water	7732-18-5	92.50000	0.74983	None
			Hydrochloric Acid	7647-01-0	7.50000	0.06080	None
Hydrochloric Acid (15%)	Keane	Acidizing	Water	7732-18-5	85.00000	0.05371	None
			Hydrochloric Acid	7647-01-0	15.00000	0.00948	None
KFR-23	Keane	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	45.00000	0.03648	None
			copolymer of 2-propenamides	Proprietary	10.00000	0.00811	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00162	None
			oleic acid diethanolamide	93-83-4	2.00000	0.00162	None
KFEAC-30	Keane	Iron Control					

			acetic acid	64-19-7	60.00000	0.00281	None
			Citric acid	77-92-9	40.00000	0.00188	None
KWG-111LS	Keane	Gel					
			Guar gum	9000-30-0	55.00000	0.00216	None
			Distillates (petroleum), hydrotreated light	64742-47-8	55.00000	0.00216	None
MBC-516	Keane	Biocide					
			glutaral	111-30-8	26.70000	0.00229	None
			didecyldimethylammonium chloride	7173-51-5	8.00000	0.00068	None
			quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.30000	0.00045	None
KSI-19	Keane	Scale Inhibitor					
			Methanol	67-56-1	30.00000	0.00254	None
KAI-12	Keane	Acid Inhibitor					
			Methanol	67-56-1	90.00000	0.00094	None
			isoproyl alcohol	67-63-0	5.00000	0.00005	None
			xylene	1330-20-7	5.00000	0.00005	None
			Fatty imidazoline	61790-69-0	5.00000	0.00005	None
			Alcohols, C7-9-iso-, C8-rich	68526-83-0	5.00000	0.00005	None
			prop-2-yn-1-ol	107-19-7	5.00000	0.00005	None
			ethylbenzene	100-41-4	1.00000	0.00001	None
KWBO-2	Keane	Breaker					
			Sodium persulfate	7775-27-1	99.00000	0.00004	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.

Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	92.50000	0.74983	
			Water	7732-18-5	85.00000	0.05371	
			copolymer of 2-propenamamide	Proprietary	10.00000	0.00811	
			Distillates (petroleum), hydrotreated light	64742-47-8	55.00000	0.00216	
			Citric acid	77-92-9	40.00000	0.00188	
			oleic acid diethanolamide	93-83-4	2.00000	0.00162	
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00162	
			didecyldimethylammonium chloride	7173-51-5	8.00000	0.00068	
			quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.30000	0.00045	
			Alcohols, C7-9-iso-, C8-rich	68526-83-0	5.00000	0.00005	
			prop-2-yn-1-ol	107-19-7	5.00000	0.00005	
			isoproyl alcohol	67-63-0	5.00000	0.00005	
			xylene	1330-20-7	5.00000	0.00005	
			Fatty imidazoline	61790-69-0	5.00000	0.00005	
			ethylbenzene	100-41-4	1.00000	0.00001	

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 WV Department of Environmental Protection

* 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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Office of Oil and Gas

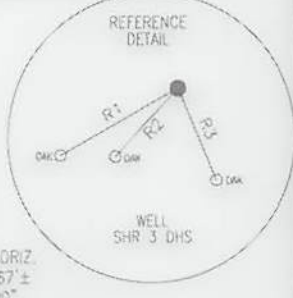
FEB 20 2018

WV Department of
Environmental Protection

BHL is located on topo map 9,415 feet south of Latitude: 39° 25' 00"
 SHL is located on topo map 896 feet south of Latitude: 39° 25' 00"

BHL is located on topo map 7,936 feet west of Longitude: 80° 47' 30"
 SHL is located on topo map 11,666 feet west of Longitude: 80° 47' 30"

- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.



LINE	BEARING	DISTANCE
R1	S 60°57'45" W	233.95'
R2	S 43°14'23" W	160.24'
R3	S 22°48'35" E	171.25'
R4	S 83°15'50" W	821.25'
R5	N 14°05'18" W	1185.02'
R6	N 08°05'37" E	801.93'

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- WATER SOURCE
- LEASE NUMBER
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- AS DRILLED
- ROAD
- STREAM CENTER LINE

GAS WELLS

- EXISTING WELLS
- PLUGGED WELLS

AS DRILLED SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83
 N:4362756.34
 E:514379.72
 NAD27 WV NORTH
 N:335737.510
 E:1623357.600
 LAT/LON DATUM-NAD83
 LAT:39.414206
 LON:-80.832958

AS DRILLED LANDING POINT

UTM 17-NAD83
 N:4362852.12
 E:514565.25
 NAD27 WV NORTH
 N:335385.318
 E:1623960.691
 LAT/LON DATUM-NAD83
 LAT:39.413264
 LON:-80.830806

AS DRILLED BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83
 N:4360162.88
 E:515522.30
 NAD27 WV NORTH
 N:327164.390
 E:1626964.950
 LAT/LON DATUM-NAD83
 LAT:39.390817
 LON:-80.819747

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

SEE PAGE 2 FOR OIL & GAS ROYALTY OWNERS

FILE #: SHR 3 DHS-AS DRILLED
 DRAWING #: SHR 3 DHS-AS DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: NOVEMBER 2, 2017
 OPERATOR'S WELL #: SHR 3 DHS-AS DRILLED
 API WELL #: 47 95 02195
 STATE COUNTY PERMIT

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

WATERSHED: HEADWATERS MIDDLE ISLAND CREEK ELEVATION: 751±
 COUNTY/DISTRICT: TYLER / CENTERVILLE QUADRANGLE: SHIRLEY, WV 7.5'
 SURFACE OWNER: NOBLE ENERGY INC. ACREAGE: 542.81±
 OIL & GAS ROYALTY OWNER: DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY, AMP FUND III, LP ACREAGE: 1093.313±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AS DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,338'± TMD: 15,610'±
 WELL OPERATOR CNX GAS COMPANY LLC DESIGNATED AGENT CHRIS TURNER
 Address 1000 CONSOL ENERGY DRIVE Address 1 DOMINION DR.
 City CANONSBURG State PA Zip Code 15317 City JANE LEW State WV Zip Code 26378

SHR 3 DHS
PAGE 2 OF 2
AS DRILLED PLAT

TRACT	PARCEL #	OIL & GAS ROYALTY OWNER
1	1-8-10	DAVID H. WEEKLEY & LINDA C. WEEKLEY
		DANIEL A. WEEKLEY & SUZANNE L. WEEKLEY
		AMP FUND III, LP
2	1-9-3	ROSEMARY HAUGHT, ET AL
3	5-15-40	JOSEPH CLIFFORD STRATON, ET AL
4	5-18-1	DONALD SECKMAN
5	5-18-2	MICHAEL PRATT, ET AL
6	5-18-4.4	TODD A. JAMES, ET AL
7	5-18-4.3	TODD A. JAMES, ET AL
8	5-18-4.1	TODD A. JAMES, ET AL
9	5-18-6	LINDA L. CAMPBELL, ET AL
10	5-18-7.1	OK NAN KEYS, ET AL
11	5-18-7	OK NAN KEYS, ET AL

NOVEMBER 2, 2017

**AS DRILLED
SURFACE HOLE LOCATION (SHL)**

UTM 17-NAD83
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E:514379.72
NAD27, WV NORTH
N:335737.510
E:1623357.600
LAT/LON DATUM-NAD83
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**AS DRILLED
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