

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

RECEIVED
Office of Oil and Gas

FEB 13 2018

WV Department of
Environmental Protection

API 47 - 033 - 05886 County Harrison District Clark
Quad Mt. Clare Pad Name Goff 5-55 Field/Pool Name _____
Farm name Dimaria, Sharon E. Well Number 212
Operator (as registered with the OOG) Arsenal Resources
Address 6031 Wallace Rd. Ext City Wexford State PA Zip 15090

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4345663.5 Easting 553451.8
Landing Point of Curve Northing 4345581.6 Easting 552892.2
Bottom Hole Northing 4347994.0 Easting 551985.1

Elevation (ft) 1156.30 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 muds

Date permit issued 02/28/2017 Date drilling commenced 07/27/2017 Date drilling ceased 08/06/2017
Date completion activities began 10/04/2017 Date completion activities ceased 10/20/2017
Verbal plugging (Y/N) N/A 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 640' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1030' Void(s) encountered (Y/N) depths N
Coal depth(s) ft Pittsburgh-30.5' Cavern(s) encountered (Y/N) depths N

Is coal being mined in area (Y/N) N

Reviewed

SDW
4/11/2018

Reviewed by:

AGC

API 47-033 - 05886 Farm name Dimaria, Sharon E. Well number 212

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	24"	80'	New	94.00	NA	Y
Surface	17.5"	13 3/8"	704'	New	54.50	120'	Y
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,528'	New	40.00	NA	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	16,153'	New	20.00	NA	N
Tubing							
Packer type and depth set							

Comment Details Cement to surface on Conductor, Surface, and Intermediate. Top of Cement at 1,960 ft.

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	A	255	15.6	1.20	306	Surface	8+
Surface	A	667	15.6	1.20	800	Surface	8+
Coal							
Intermediate 1	A	143/675	15.2/15.7	1.26/1.28	180/864	Surface	8+
Intermediate 2							
Intermediate 3							
Production	A	862/1,941	13.8/15.0	1.34/1.29	1155/2504	1,960'	8+
Tubing							

Drillers TD (ft) 16,180 ft Loggers TD (ft) NA

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) KOP of Curve at 6,450'

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 20" - No centralizers 13 3/8" - one bow spring centralizer on every other joint 9 5/8" - one bow spring centralizer every third joint from TD to surface 5 1/2" - one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,600'; there will be no centralizers from 2,600' to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Well completed in 42 stages. 1,680 perforations

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS RECEIVED

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED FEB 13 2018

Perforation Record

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations (s)
42	10/20/2017 10:18	7,721.00	7,875.00	40	Marcellus Shale
41	10/20/2017 3:00	7,911.00	8,065.00	40	Marcellus Shale
40	10/19/2017 22:06	8,101.00	8,255.00	40	Marcellus Shale
39	10/19/2017 15:47	8,544.00	8,699.00	40	Marcellus Shale
38	10/19/2017 8:22	8,736.00	8,890.00	40	Marcellus Shale
37	10/19/2017 1:37	8,926.00	9,080.00	40	Marcellus Shale
36	10/18/2017 20:00	9,116.00	9,270.00	40	Marcellus Shale
35	10/18/2017 13:05	9,306.00	9,460.00	40	Marcellus Shale
34	10/17/2017 22:06	9,496.00	9,650.00	40	Marcellus Shale
33	10/17/2017 15:08	9,686.00	9,840.00	40	Marcellus Shale
32	10/17/2017 2:41	9,876.00	10,030.00	40	Marcellus Shale
31	10/16/2017 14:20	10,066.00	10,220.00	40	Marcellus Shale
30	10/16/2017 7:10	10,256.00	10,410.00	40	Marcellus Shale
29	10/15/2017 23:07	10,446.00	10,600.00	40	Marcellus Shale
28	10/15/2017 15:16	10,636.00	10,790.00	40	Marcellus Shale
27	10/15/2017 6:10	10,826.00	10,980.00	40	Marcellus Shale
26	10/14/2017 17:37	11,016.00	11,170.00	40	Marcellus Shale
25	10/14/2017 8:22	11,206.00	11,360.00	40	Marcellus Shale
24	10/14/2017 0:28	11,396.00	11,550.00	40	Marcellus Shale
23	10/13/2017 12:36	11,586.00	11,740.00	40	Marcellus Shale
22	10/13/2017 3:50	11,776.00	11,930.00	40	Marcellus Shale
21	10/12/2017 20:47	11,966.00	12,120.00	40	Marcellus Shale
20	10/12/2017 13:13	12,156.00	12,310.00	40	Marcellus Shale
19	10/12/2017 5:01	12,346.00	12,500.00	40	Marcellus Shale
18	10/11/2017 21:38	12,536.00	12,698.00	40	Marcellus Shale
17	10/11/2017 13:12	12,736.00	12,898.00	40	Marcellus Shale
16	10/11/2017 5:49	12,936.00	13,098.00	40	Marcellus Shale
15	10/10/2017 21:39	13,136.00	13,298.00	40	Marcellus Shale
14	10/10/2017 13:17	13,336.00	13,498.00	40	Marcellus Shale
13	10/10/2017 4:27	13,536.00	13,698.00	40	Marcellus Shale
12	10/10/2017 16:08	13,736.00	13,898.00	40	Marcellus Shale
11	10/9/2017 10:23	13,936.00	14,098.00	40	Marcellus Shale
10	10/8/2017 15:14	14,136.00	14,298.00	40	Marcellus Shale
9	10/8/2017 2:21	14,336.00	14,498.00	40	Marcellus Shale
8	10/7/2017 14:08	14,536.00	14,698.00	40	Marcellus Shale
7	10/7/2017 2:43	14,736.00	14,898.00	40	Marcellus Shale
6	10/6/2017 15:02	14,936.00	15,098.00	40	Marcellus Shale
5	10/6/2017 3:55	15,136.00	15,298.00	40	Marcellus Shale
4	10/5/2017 14:58	15,336.00	15,498.00	40	Marcellus Shale
3	10/5/2017 6:35	15,536.00	15,698.00	40	Marcellus Shale
2	10/4/2017 15:08	15,736.00	15,898.00	40	Marcellus Shale
1	10/1/2017 22:00	15,936.00	16,095.00	40	Marcellus Shale

Stimulation Information Per 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 (bbbls)
1	10/04/2017	64.00	8,071.00	8,853	4,748	411,680	9,608
2	10/05/2017	69.00	8,384.00	6,349	4,704	502,580	12,283
3	10/05/2017	65.00	8,183.00	7,040	5,036	479,580	11,234
4	10/05/2017	69.00	8,426.00	6,075	4,701	500,700	11,332
5	10/06/2017	71.00	8,338.00	6,312	5,180	497,380	10,817
6	10/06/2017	72.00	8,388.00	5,996	5,287	507,600	10,718
7	10/07/2017	69.00	8,487.00	6,444	4,715	335,960	10,137
8	10/07/2017	72.00	8,463.00	6,035	4,634	500,280	10,641
9	10/08/2017	68.00	8,351.00	6,781	4,933	500,500	13,445
10	10/08/2017	59.00	8,516.00	6,628	4,833	500,380	14,211
11	10/09/2017	71.00	8,126.00	6,208	5,544	504,720	10,430
12	10/09/2017	66.00	8,327.00	6,200	5,378	502,100	15,106
13	10/10/2017	70.00	8,247.00	6,286	4,702	508,600	12,848
14	10/10/2017	74.00	8,198.00	6,686	5,216	506,040	11,066
15	10/11/2017	73.00	8,227.00	6,947	5,512	505,940	12,953
16	10/11/2017	79.00	8,206.00	6,391	5,669	483,200	10,311
17	10/11/2017	80.00	8,258.00	6,164	5,359	500,520	10,377
18	10/12/2017	78.00	8,063.00	6,039	5,378	503,320	10,164
19	10/12/2017	69.00	8,177.00	6,865	5,512	504,760	13,707
20	10/12/2017	76.00	8,106.00	6,291	5,071	503,700	10,489
21	10/12/2017	80.00	8,238.00	6,728	5,458	502,200	9,834
22	10/13/2017	74.00	7,847.00	6,287	5,225	503,820	10,980
23	10/13/2017	71.00	8,000.00	6,452	5,279	451,120	10,570
24	10/14/2017	71.00	8,053.00	6,067	4,867	502,640	13,573
25	10/14/2017	59.00	7,836.00	6,270	5,656	487,480	15,014
26	10/15/2017	68.00	8,241.00	6,073	5,767	449,660	12,325
27	10/15/2017	71.00	8,176.00	6,141	5,675	446,620	12,249
28	10/15/2017	70.00	7,660.00	6,042	5,025	502,980	14,372
29	10/16/2017	70.00	7,902.00	6,531	5,128	504,560	14,281
30	10/16/2017	73.00	7,703.00	6,205	4,852	501,780	12,154
31	10/16/2017	70.00	8,170.00	6,393	4,687	503,460	13,613
32	10/17/2017	52.00	8,490.00	6,561	5,878	115,060	7,249
33	10/17/2017	72.00	7,137.00	6,477	4,797	504,920	11,053
34	10/18/2017	81.00	7,613.00	6,600	4,453	504,180	10,816
35	10/18/2017	77.00	7,520.00	6,612	4,575	502,840	11,797
36	10/18/2017	81.00	7,321.00	6,322	4,934	504,020	9,725
37	10/19/2017	81.00	7,387.00	6,492	4,980	503,760	9,683
38	10/19/2017	77.00	7,715.00	6,656	5,069	505,460	10,479
39	10/19/2017	80.00	7,514.00	6,835	4,847	495,240	9,607
40	10/20/2017	79.00	7,326.00	7,370	4,348	501,960	8,619
41	10/20/2017	79.00	7,442.00	6,886	5,107	497,040	10,626
42	10/20/2017	80.00	7,028.00	6,024	4,778	497,480	9,000

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API 47- 033 - 05886 Farm name Dimaria, Sharon E. Well number 212

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus Shale	7014	TVD	7727 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 _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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)
Sand/silt	0	3916	0	4198	Sand/silt
Bradford	3916	4434	4198	4708	Sandstone
Benson	4434	4712	4708	5012	Sandstone
1st Elk	4712	6720	5012	7105	Silt
Burkett	6720	6744	7105	7138	Shale
Tully	6744	6807	7138	7227	Limestone
Mahantango	6807	6968	7227	7546	Shale
Marcellus	6968	7014	7546	7727	Shale
Purcell	7014	7736	7727	7736	Limestone
Lower Marcellus	7015	6977	7736	16190	Shale

Please insert additional pages as applicable.

Drilling Contractor H&P
Address 1437 South Boulder Ave. City Tulsa State OK Zip 74119

Logging Company NA
Address _____ City _____ State _____ Zip _____

Cementing Company C&J Energy Services, Inc
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

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

Please insert additional pages as applicable.

Completed by Arsenal Resources Telephone 304-679-6709 RECEIVED
Signature [Signature] Title PERMITTING MANAGER Date 2/6/18 Office of Oil and Gas

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry FEB 13 2018

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	10/4/2017
Job End Date:	10/20/2017
State:	West Virginia
County:	Harrison
API Number:	47-033-05886-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Goff 5-55 212
Latitude:	39.25865700
Longitude:	-80.38045500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,046
Total Base Water Volume (gal):	20,661,354
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	89.02844	None
Sand (Proppant)	Keane	Proppant					
			Crystalline silica: Quartz (SiO2)	14808-60-7	100.00000	10.45495	None
Hydrochloric Acid (7.5%)	Keane	Acid Inhibitor					
			Water	7732-18-5	92.50000	0.35640	None
KFR-16FW	Keane	Friction Reducer					
			Hydrochloric Acid	7647-01-0	7.50000	0.02890	None
			Water	7732-18-5	60.00000	0.06383	None
			Distillates (petroleum), hydrotreated light	64742-47-8	20.00000	0.02128	None
			oleic acid diethanolamide	93-83-4	1.50000	0.00160	None
MBC-516	Keane	Biocide					
			ammonium chloride	12125-02-9	1.50000	0.00160	None
			alcohols, C12-16, ethoxylated	68551-12-2	1.00000	0.00106	None
			Water	7732-18-5	56.70000	0.00538	None
			Glutaral	111-30-8	26.70000	0.00253	None

			didecyldimethylammonium chloride	7173-51-5	8.00000	0.00076	None
			quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.30000	0.00050	None
			ethonal	64-17-5	2.80000	0.00027	None
KLSI-21	Keane	Scale Inhibitor					
			polyphosphoric acids, esters with triethanolamine, sodium salts	68131-72-6	30.00000	0.00411	None
KAI-12	Keane	Acid Inhibitor					
			Ethylene glycol	107-21-1	40.00000	0.00070	None
			dipropylene glycol, monomethyl ether	34590-94-8	20.00000	0.00035	None
			Tar bases, quinoline derivs., benzyl chloride-quaternized	72480-70-7	10.00000	0.00017	None
			Ethoxylated alcohol	68131-39-5	10.00000	0.00017	None
			Cinnamaldehyde	104-55-2	10.00000	0.00017	None
			formic acid	64-18-6	10.00000	0.00017	None
			isopropyl alcohol	67-63-0	5.00000	0.00009	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	0.35640	
			Distillates (petroleum), hydrotreated light	64742-47-8	20.00000	0.02128	
			Glutaral	111-30-8	26.70000	0.00253	
			oleic acid diethanolamide	93-83-4	1.50000	0.00160	
			ammonium chloride	12125-02-9	1.50000	0.00160	
			alcohols, C12-16, ethoxylated	68551-12-2	1.00000	0.00106	
			didecyldimethylammonium chloride	7173-51-5	8.00000	0.00076	
			quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.30000	0.00050	
			dipropylene glycol, monomethyl ether	34590-94-8	20.00000	0.00035	
			ethonal	64-17-5	2.80000	0.00027	
			Cinnamaldehyde	104-55-2	10.00000	0.00017	
			formic acid	64-18-6	10.00000	0.00017	
			Ethoxylated alcohol	68131-39-5	10.00000	0.00017	
			Tar bases, quinoline derivs., benzyl chloride-quaternized	72480-70-7	10.00000	0.00017	
			isopropyl alcohol	67-63-0	5.00000	0.00009	
			Water	7732-18-5	85.00000	0.00000	

* 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)

NOTES ON SURVEY

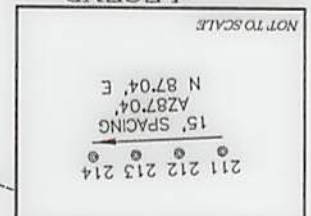
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.

2. LEASE INFORMATION PROVIDED BY MOUNTAINEER KEYSTONE.

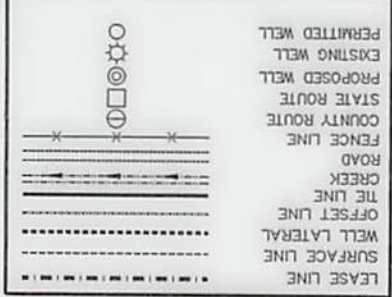
212 WELL TIES

LINE	BEARING	DISTANCE
L1	S 84°16' W	1823.69
L2	N 19°38' W	687.98
L3	N 19°38' W	8458.64
L4	S 88°28' E	804.37
L5	S 82°24' E	923.64

GOLF 5 - 55 WELL LAYOUT



NOT TO SCALE



MOUNTAINEER KEYSTONE GOLF 5-55 PAD WELL 212

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 S.P.C.(FT) N. 277,645.2 E. 1,719,196.9 NAD83 UTM (M) N. 4,345,663.5 E. 553,451.8

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 S.P.C.(FT) N. 277,307.1 E. 1,717,355.3 NAD83 GEO. LAT(N) 39.257953 LONG(W) 80.386947

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 UTM (M) N. 4,345,581.6 E. 552,892.2

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 S.P.C.(FT) N. 286,272.9 E. 1,714,510.2 NAD83 GEO. LAT(N) 39.279745 LONG(W) 80.397275

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 UTM (M) N. 4,347,994.0 E. 551,985.1

Land & Energy Development

 Solutions from the ground up.
 P.O. Box 150 • 12 Vanhook Drive • Greensboro, WV 26031 • (304) 402-9034
 www.slsenergy.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677
 Gregory A. Smith



MINIMUM DEGREE OF ACCURACY 1 / 2500
 FILE NO. 8312P212AD.dwg
 SCALE 1" = 2000'
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORN NETWORK)

WELL TYPE: OIL LIQUID WASTE GAS INJECTION DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION EXISTING: 1,166.30' / PROPOSED: 1,165.20' WATERSHED WEST FORK RIVER DISTRICT CLARK COUNTY HARRISON QUADRANGLE WOLF SUMMIT

SURFACE OWNER SHARON DIMARIA COUNTY COMMISSION OF HARRISON COUNTY ROYALTY OWNER COUNTY COMMISSION OF HARRISON COUNTY

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH 16,232' TMD / 7,045' TVD

WELL OPERATOR MOUNTAINEER KEYSTONE, LLC ADDRESS 6031 WALLACE RD, EXT. SUITE 300 WEXFORD, PA 15090

DESIGNATED AGENT NATHAN SKEEN ADDRESS 65 PROFESSIONAL PLACE BRIDGEPORT, WV 26330

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE OCTOBER 10, 2016

REVISED SEPTEMBER 18, 2017

OPERATORS WELL NO. 212

API WELL NO. 47

STATE 033 COUNTY PERMIT 05886

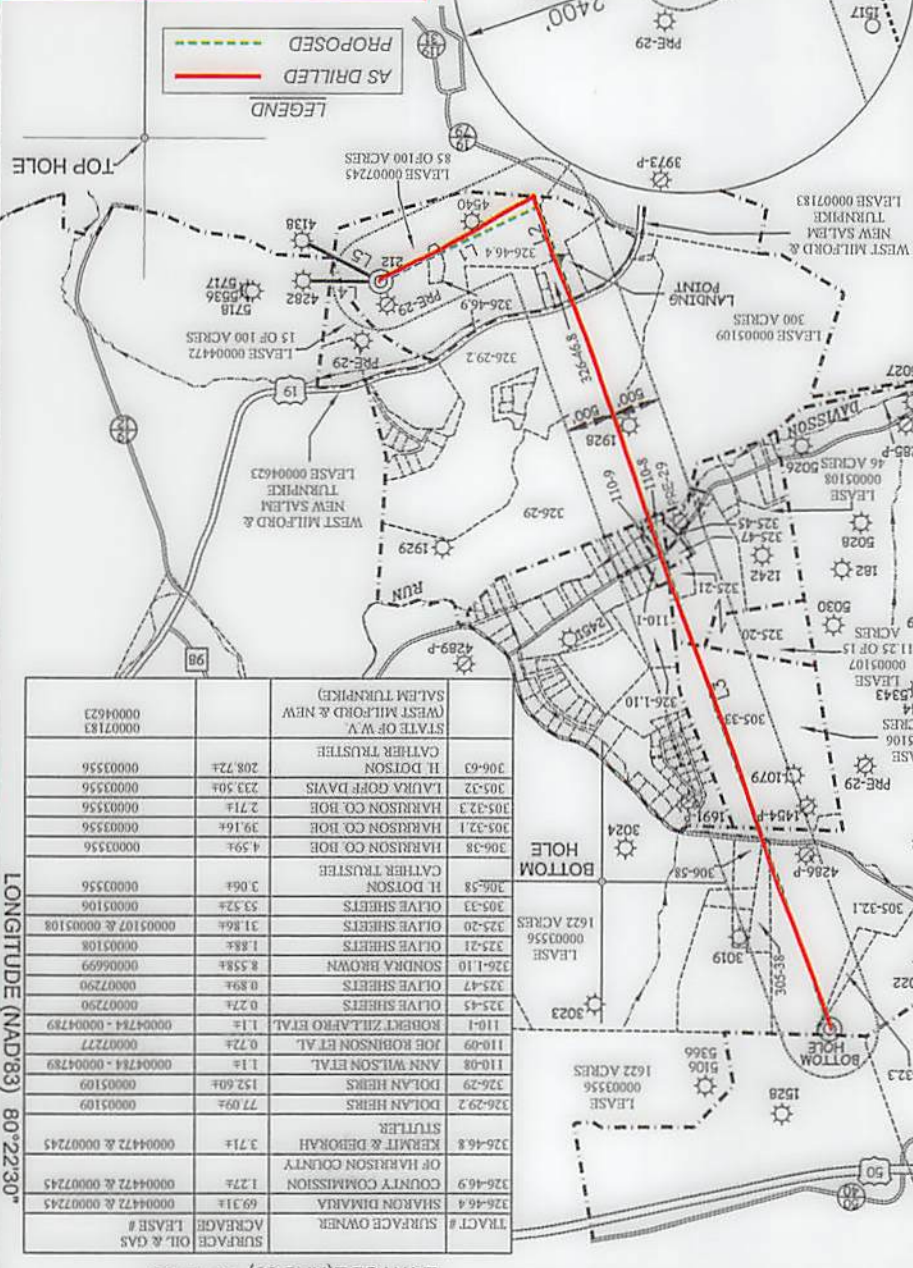
STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

AS DRILLED COORDINATES FOR WELL NO. 212

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 S.P.C.(FT) N. 277,545.2 E. 1,719,196.9 NAD83 GEO. (DD) LAT(N) 39.256666 LONG(W) 80.380455 NAD83 GEO. (DMS) LAT(N) 39°15'31.2" LONG(W) 80°22'49.6"

(S.P.C. NORTH ZONE) (UTM(N) ZONE 17 NORTH) NAD83 S.P.C.(FT) N. 285,294.4 E. 1,714,482.8 NAD83 GEO. (DD) LAT(N) 39.278603 LONG(W) 80.387373 NAD83 GEO. (DMS) LAT(N) 39°16'47.3" LONG(W) 80°22'50.6"

BOTTOM HOLE NAD83 UTM (M) N. 4,345,663.5 E. 553,451.8 NAD83 S.P.C.(FT) N. 277,645.2 E. 1,719,196.9



TRACT #	SURFACE OWNER	ACREAGE	LEASE #
326-46-4	SHARON DIMARIA	69.31±	00004472 & 00007245
326-46-9	COUNTY COMMISSION OF HARRISON COUNTY	1.27±	00004472 & 00007245
326-46-8	KERMIT & DEBORAH STUTLER	3.71±	00004472 & 00007245
326-29-2	DOLAN HERMS	77.09±	00005109
326-29-2	DOLAN HERMS	152.60±	00005109
110-08	ANN WILSON ET AL	1.1±	00004784 & 00004789
110-09	JOE ROBINSON ET AL	0.72±	00002727
326-46-4	STATE OF W.V. (WEST MILFORD & NEW SALTEM TURNPIKE)	0000183	00004623

LEGEND
 AS DRILLED (Red solid line)
 PROPOSED (Green dashed line)