

Via Federal Express

January 25, 2017

State of West Virginia  
Department of Environmental Protection  
Office of Oil & Gas  
601 57<sup>th</sup> Street  
Charleston WV 25304

**RE:** SWN Production Company, LLC  
Operator ID: 494512924  
Form WR-34 and WR-35 Filing

To Whom It May Concern:

Please find enclosed form WR-34 Discharge Monitoring Report and WR-35 Well Operator's Report of Well Work, along with supporting documents for G W Rentals LLC OHI 3H (API 47-069-00193) and G W Rentals LLC OHI 5H (API 47-069-00195).

A form WR-36 Well Operator's Report of Initial Gas-Oil Ratio will be filed within 15 days of first production.

If you have any questions or require additional information, please contact me via email at [denise\\_grantham@swn.com](mailto:denise_grantham@swn.com) or telephone at (832) 796-6139.

Sincerely,



Denise Grantham  
Regulatory Technician  
West Virginia Division

/lg  
Encl.

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A → V+

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

API 47-069-00193 County OHIO District TRIADELPHIA  
Quad VALLEY GROVE, WV Pad Name G W RENTALS LLC-OHI-PAD1 Field/Pool Name PANHANDLE FIELD  
Farm name G W RENTALS LLC OHI 3 Well Number G W RENTALS LLC OHI 3  
Operator (as registered with the OOG) SWN PRODUCTION COMPANY LLC  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,436,093.623 Easting 537,031.938  
Landing Point of Curve Northing 4,436,141.541 Easting 536,879.168  
Bottom Hole Northing 4,438,011.361 Easting 536,055.811

Elevation (ft) 1246.4' 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)  
SOBM

Date permit issued 9/21/2015 Date drilling commenced 09/29/2015 Date drilling ceased 10/27/2015  
Date completion activities began 09/06/2016 Date completion activities ceased 11/04/2016  
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 511' Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 1329' Void(s) encountered (Y/N) depths 614' - 617'  
Coal depth(s) ft 640' Cavern(s) encountered (Y/N) depths JAN 26 2017

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

**APPROVED**

NAME: Eric Blood  
DATE: 2-3-17

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API 47-069 - 00193 Farm name G W RENTALS LLC OHI 3 Well number G W RENTALS LLC OHI 3

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	28"	20"	126	NEW	J-55/94#		Y
Surface	17.5"	13.375"	669	NEW	J-55/54.5#	589' & 604'	Y, 1 BBL RETURNED
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25"	9.625"	2124	NEW	J-55/40#		Y, 22 BBLs RETURNED
Intermediate 2							
Intermediate 3							
Production	8.75"/8.50"	5.5"	13570	NEW	HCP-110/20#		Y
Tubing		2.375"	6752	NEW	L-80/4.7#		N
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	150	17.20			SURFACE	24
Surface	CLASS A	477	15.60	1.19	567.63	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	793	15.60	1.18	935.74	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	930/1455	15.60	1.23/1.19	1143.9/1731.45	SURFACE	24
Tubing	N/A						

Drillers TD (ft) 13,570' Loggers TD (ft) 13,570'  
 Deepest formation penetrated UPPER MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5,900'

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 \_\_\_\_\_

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT 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 \_\_\_\_\_

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API 47- 069 - 00193 Farm name G W RENTALS LLC OHI 3 Well number G W RENTALS LLC OHI 3

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	EXHIBIT	1		

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	EXHIBIT	2				

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Please insert additional pages as applicable.

API 47- 069 - 00193 Farm name G W RENTALS LLC OHI 3 Well number G W RENTALS LLC OHI 3

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
MARCELLUS	6489.72	TVD 6737.27 MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1350 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 <sub>2</sub> S, ETC)
	0		0		
	SEE	EXHIBIT	3		

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY  
Address P O BOX 12359 City SPRING State TX Zip 77391-2359

Logging Company NINE ENERGY  
Address 16945 NORTHCHASE DRIVE, STE 1600 City HOUSTON State TX Zip 77060

Cementing Company SCHLUMBERGER WELL SERVICES  
Address 110 SCHLUMBERGER DRIVE City SUGARLAND State TX Zip 77478

Stimulating Company HALLIBURTON ENERGY SERVICES  
Address 14851 MILNER ROAD, GATE 5A City HOUSTON State TX Zip 77062

Please insert additional pages as applicable.

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Completed by Denise Grantham Telephone 832-796-6139  
Signature Denise Grantham Title Regulatory Technician Date JAN 26 2017

## G W RENTALS LLC OHI 3H

## Perf Stage Summary

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD	# SHOTS PER STG
1	9/7/2016	13,461	13,354	42
2	9/7/2016	13,321	13,214	42
3	9/7/2016	13,181	13,075	72
4	9/8/2016	13,038	12,935	42
5	9/8/2016	12,902	12,795	42
6	9/9/2016	12,762	12,655	42
7	9/9/2016	12,622	12,516	42
8	9/9/2016	12,483	12,376	42
9	9/10/2016	12,343	12,236	42
10	9/10/2016	12,203	12,096	42
11	9/10/2016	12,063	11,956	39
12	9/10/2016	11,924	11,817	42
13	9/11/2016	11,784	11,677	42
14	9/11/2016	11,644	11,537	42
15	9/11/2016	11,504	11,397	42
16	9/11/2016	11,364	11,258	42
17	9/12/2016	11,225	11,118	42
18	9/12/2016	11,085	10,978	42
19	9/12/2016	10,945	10,838	42
20	9/12/2016	10,805	10,699	42
21	9/13/2016	10,666	10,557	42
22	9/13/2016	10,523	10,419	42
23	9/13/2016	10,386	10,279	42
24	9/13/2016	10,246	10,139	42
25	9/14/2016	10,107	10,000	42
26	9/14/2016	9,967	9,860	42
27	9/14/2016	9,827	9,720	42
28	9/15/2016	9,687	9,580	42
29	9/15/2016	9,547	9,441	42
30	9/16/2016	9,408	9,301	42
31	9/16/2016	9,268	9,161	42
32	9/16/2016	9,122	9,021	42
33	9/16/2016	8,988	8,882	42
34	9/16/2016	8,849	8,742	42
35	9/17/2016	8,709	8,602	42
36	9/17/2016	8,569	8,462	42
37	9/17/2016	8,429	8,322	42
38	9/18/2016	8,290	8,183	42
39	9/18/2016	8,150	8,043	42
40	9/18/2016	8,010	7,903	42
41	9/18/2016	7,870	7,763	42
42	9/19/2016	7,730	7,624	42
43	9/19/2016	7,591	7,484	42
44	9/19/2016	7,451	7,344	42
45	9/19/2016	7,311	7,204	42
46	9/19/2016	7,171	7,065	42
47	9/20/2016	7,032	6,925	42
48	9/20/2016	6,892	6,785	42

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G W RENTALS LLC OHI 3H

Frac Stage Summary

STAGE NUM	Stim 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
1	9/7/2016	2	7,979	8,638	4,028	499,580	8,027	
2	9/7/2016	2	8,318	9,179	4,665	479,760	7,665	
3	9/7/2016	2	7,822	9,182	4,657	495,540	13,892	
4	9/8/2016	2	8,290	9,247	4,921	500,680	15,001	
5	9/8/2016	2	7,967	8,399	4,733	499,400	10,094	
6	9/9/2016	2	8,012	8,871	5,002	500,380	7,862	
7	9/9/2016	2	7,866	9,173	4,899	499,980	10,619	
8	9/9/2016	2	8,028	8,955	4,838	503,600	11,259	
9	9/10/2016	2	7,906	8,361	4,875	500,360	8,039	
10	9/10/2016	2	8,032	8,862	4,660	500,860	9,429	
11	9/10/2016	2	7,988	8,992	4,960	499,800	8,397	
12	9/10/2016	2	7,876	8,403	4,891	500,520	8,010	
13	9/11/2016	2	7,813	8,318	4,831	503,220	9,200	
14	9/11/2016	2	7,806	8,255	4,797	499,020	7,908	
15	9/11/2016	2	7,739	8,660	4,806	499,120	7,923	
16	9/11/2016	2	7,641	8,263	4,882	484,800	8,005	
17	9/12/2016	2	7,372	7,790	4,733	500,380	8,173	
18	9/12/2016	2	7,815	8,372	4,775	504,020	7,956	
19	9/12/2016	2	7,802	8,099	4,793	506,060	7,826	
20	9/12/2016	2	7,878	8,603	4,744	498,180	7,742	
21	9/13/2016	2	7,839	8,429	4,770	502,580	7,834	
22	9/13/2016	2	7,729	8,041	4,726	501,380	7,668	
23	9/13/2016	2	7,786	8,206	4,783	500,780	8,049	
24	9/13/2016	2	7,281	7,582	4,543	500,540	7,466	
25	9/14/2016	2	7,437	8,433	4,657	501,200	7,864	
26	9/14/2016	2	7,196	8,102	4,887	504,640	7,361	
27	9/14/2016	2	7,184	9,008	4,556	500,200	7,316	
28	9/15/2016	2	7,037	7,875	4,770	499,660	7,709	
29	9/15/2016	2	7,123	8,367	4,865	500,000	7,451	
30	9/16/2016	2	7,062	7,846	4,786	498,680	7,332	
31	9/16/2016	2	7,092	8,104	4,760	499,760	7,568	
32	9/16/2016	2	7,227	7,834	4,865	501,240	7,715	
33	9/16/2016	2	7,006	7,795	4,851	499,560	7,256	
34	9/16/2016	2	7,065	8,212	4,749	500,320	7,300	
35	9/17/2016	2	7,275	7,746	4,858	499,640	7,488	
36	9/17/2016	2	7,129	8,283	4,731	499,700	7,516	
37	9/17/2016	2	7,072	7,850	4,880	500,340	7,103	
38	9/18/2016	2	7,124	8,309	4,772	500,460	7,473	
39	9/18/2016	2	7,048	7,899	4,851	499,960	7,350	
40	9/18/2016	2	6,963	8,622	4,738	499,040	7,156	
41	9/18/2016	2	6,821	7,864	4,963	498,080	7,121	
42	9/19/2016	2	6,890	7,910	4,577	502,580	7,292	
43	9/19/2016	2	6,954	7,407	4,788	519,440	7,205	
44	9/19/2016	2	7,039	8,158	4,814	519,440	7,205	
45	9/19/2016	2	7,041	8,338	4,912	500,260	7,145	
46	9/19/2016	2	6,910	7,798	4,953	505,620	7,003	
47	9/20/2016	2	7,042	8,360	4,845	500,100	7,405	
48	9/20/2016	2	7,056	8,941	4,837	501,180	7,405	

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**Well Name: G W RENTALS LLC OHI 3H**

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	N.A.	N.A.	511.00	511.00	?
Top of Salt Water	1329.00	1329.00	N.A.	N.A.	?
Pittsburgh Coal	640.00	639.99	647.00	646.99	?
Big Injun (ss)	2046.15	2031.00	2188.00	2170.00	?
Berea (siltstone)	2188.00	2170.00	5935.00	5896.00	?
Rhinstreet (shale)	5935.00	5896.00	6210.50	6165.00	?
Cashaqua (shale)	6210.50	6165.00	6272.23	6221.23	?
Middlesex (shale)	6272.23	6221.23	6361.58	6296.53	?
Burket (shale)	6361.58	6296.53	6401.71	6327.51	?
Tully (ls)	6401.71	6327.51	6447.74	6360.65	?
Mahantango (shale)	6447.74	6360.65	6737.27	6489.72	?
Marcellus (shale)	6737.27	6489.72	N.A.	N.A.	?



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/7/2016
Job End Date:	9/20/2016
State:	West Virginia
County:	Ohio
API Number:	47-069-00193-08-00
Operator Name:	Southwestern Energy
Well Name and Number:	GW Rentals OHI 3H
Latitude:	40.07428000
Longitude:	-80.56571000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,497
Total Base Water Volume (gal):	16,228,995
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
Lease Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	83.97801	Density = 8.530
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	1.37779	





\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)



320 O'Bryan Lane • Van Buren, AR 72956  
Office: 479.474.7916 • Fax: 479.474.2450  
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 53°40'57" E	1338.26'	SHL TO LANDMARK	5/8" REBAR
L2	N 19°23'41" E	1312.17'	SHL TO LANDMARK	1" IRON PIPE
L3	S 78°35'46" E	27.45'	SHL TO REF. PNT.	G W RENTALS LLC OHI 1H WELL HEAD 069-00173
L4	S 08°42'57" E	22.17'	SHL TO REF. PNT.	G W RENTALS LLC OHI 8H WELL HEAD 069-00166
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 72°35'07" W	525.29'		SHL TO LP
L6	N 23°45'57" W	6702.98'		LP TO BHL

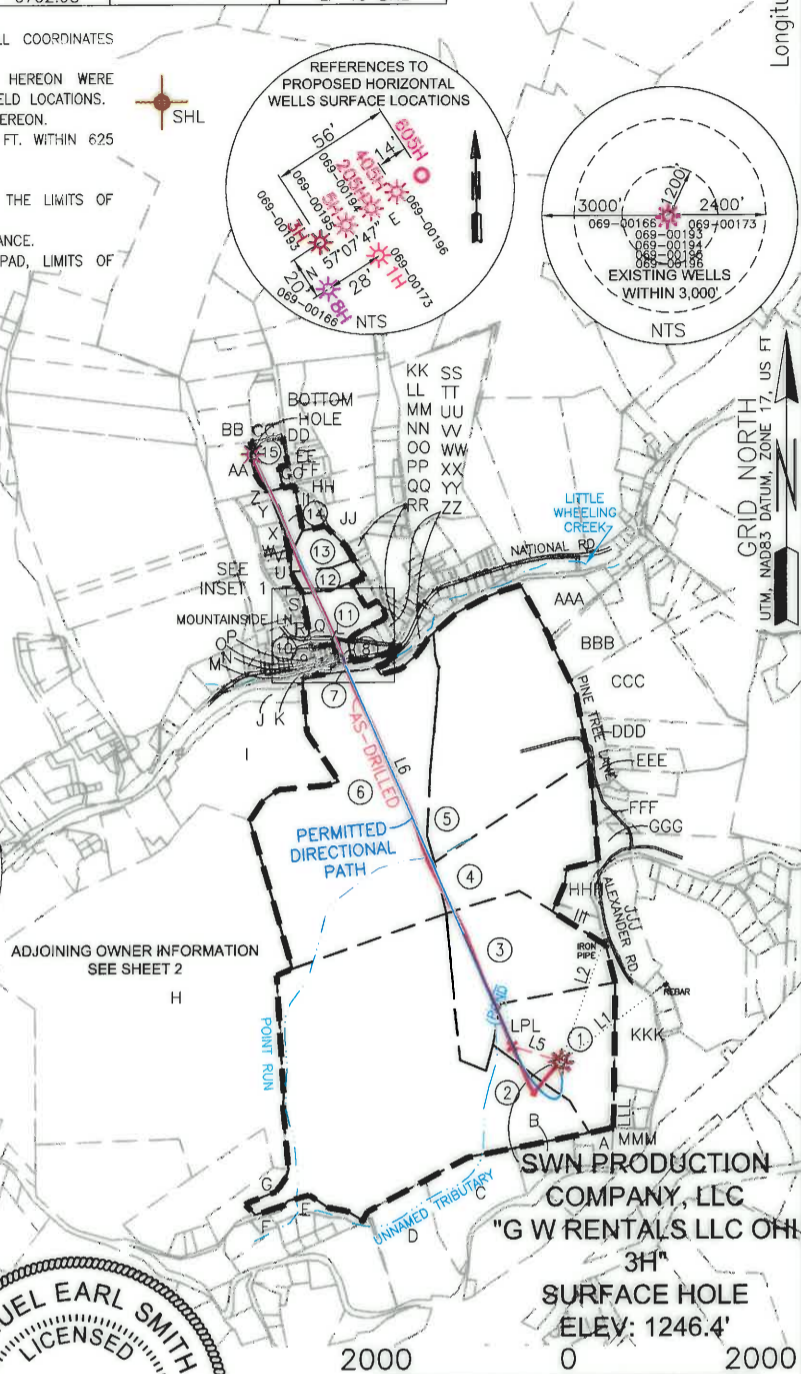
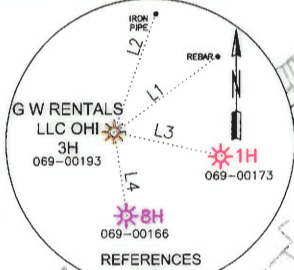
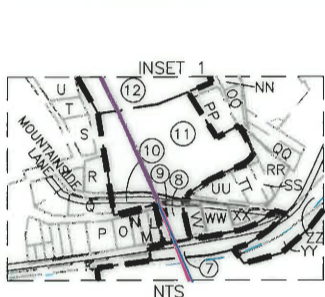
Latitude: 40°05'00"

Longitude: 80°32'30"

**NOTES ON SURVEY**

- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ. FT. WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

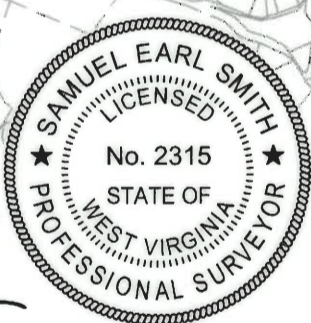
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	GW RENTALS, LLC (S) LEE J GLESSNER & GARY W GLESSNER (R) JAMES Z CHAMBERS (R) JEFFREY S CHAMBERS (R) JUDY LYNN CHAMBERS (R)	6-T9-5.1	27.66
2	WINDMILL TRUCKER CENTER, INC. (S/R)	6-T9-4	140.00
3	G W RENTALS, LLC (S) LEE J GLESSNER & GARY W GLESSNER (R)	6-T9-5.2	38.15
4	G W RENTALS, LLC (S/R)	6-T4-2.2	26.65
5	GARY W GLESSNER AS TRUSTEE OF THE LEE J GLESSNER DYNASTY TRUST (S) LEE J GLESSNER (R)	6-T4-2	86.89
6	BETTY M SINCLAIR (S/R)	3-L14-1.1	99.77
7	JOE VESPA (S/R)	8-VG9-92.1	0.88
8	WENDY PEARSON (S/R)	8-VG9-53	0.43
9	RANDY LEE SUTTON, SR (S/R)	8-VG9-52	0.21
10	PEGGY BALLER EVERLY & CARL J BALLER, JR (S/R)	8-VG9-13	0.29
11	DONN J MORRIS JR & DOLORES A MORRIS (S/R)	8-VG9-23	7.38
12	ROBERT L ETCHISON (S/R)	3-14A-172	3.09
13	ROBERT L ETCHISON (S/R)	3-L14A-143	4.84
14	ROBERT L ETCHISON (S/R)	3-L14A-63	2.10
15	MICHAEL A ZINK & PATRICIA J ZINK (S/R)	3-L14A-190	3.25



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,093.623 EASTING: 537,031.938
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,141.541 EASTING: 536,879.168
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4,438,011.361 EASTING: 536,055.811

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

*Samuel Earl Smith*  
P.S. 2315



<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: <b>SWN</b> Production Company, LLC</p> <p>OPERATOR'S WELL #: G W RENTALS LLC OHI 3H</p> <p>API WELL #: <b>47 69 00193</b></p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: WHEELING CREEK ELEVATION: 1,246.4'</p> <p>DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE WV.</p> <p>SURFACE OWNER: GW RENTALS, LLC ACREAGE: ±27.66</p> <p>OIL &amp; GAS ROYALTY OWNER: LEE J GLESSNER &amp; GARY W GLESSNER, JAMES Z CHAMBERS, JEFFREY S CHAMBERS, &amp; JUDY LYNN CHAMBERS ACREAGE: ±27.66</p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG &amp; ABANDON <input type="checkbox"/> CLEAN OUT &amp; REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED</p> <p>TARGET FORMATION: MARCELLUS DEPTH: 6,498' TVD 13,570' TMD</p>	

<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>	<p>DESIGNATED AGENT: DEE SOUTHALLE ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
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<p>LEGEND:   PROPOSED SURFACE HOLE / BOTTOM HOLE   EXISTING / PRODUCING WELLHEAD   ABANDONED WELL   PLUGGED &amp; ABANDONED WELL   CUT CONDUCTOR   LEASE BOUNDARY   AS-DRILLED PATH   PERMITTED   DIRECTIONAL PATH</p>	<p>REVISIONS:   DATE: 11-20-2015   DATE: 11-20-2015   DATE: 11-20-2015   DATE: 11-20-2015</p> <p>DRAWN BY: K. IRVIN SCALE: 1" = 2000' DRAWING NO: 59422 WELL LOCATION PLAT</p>
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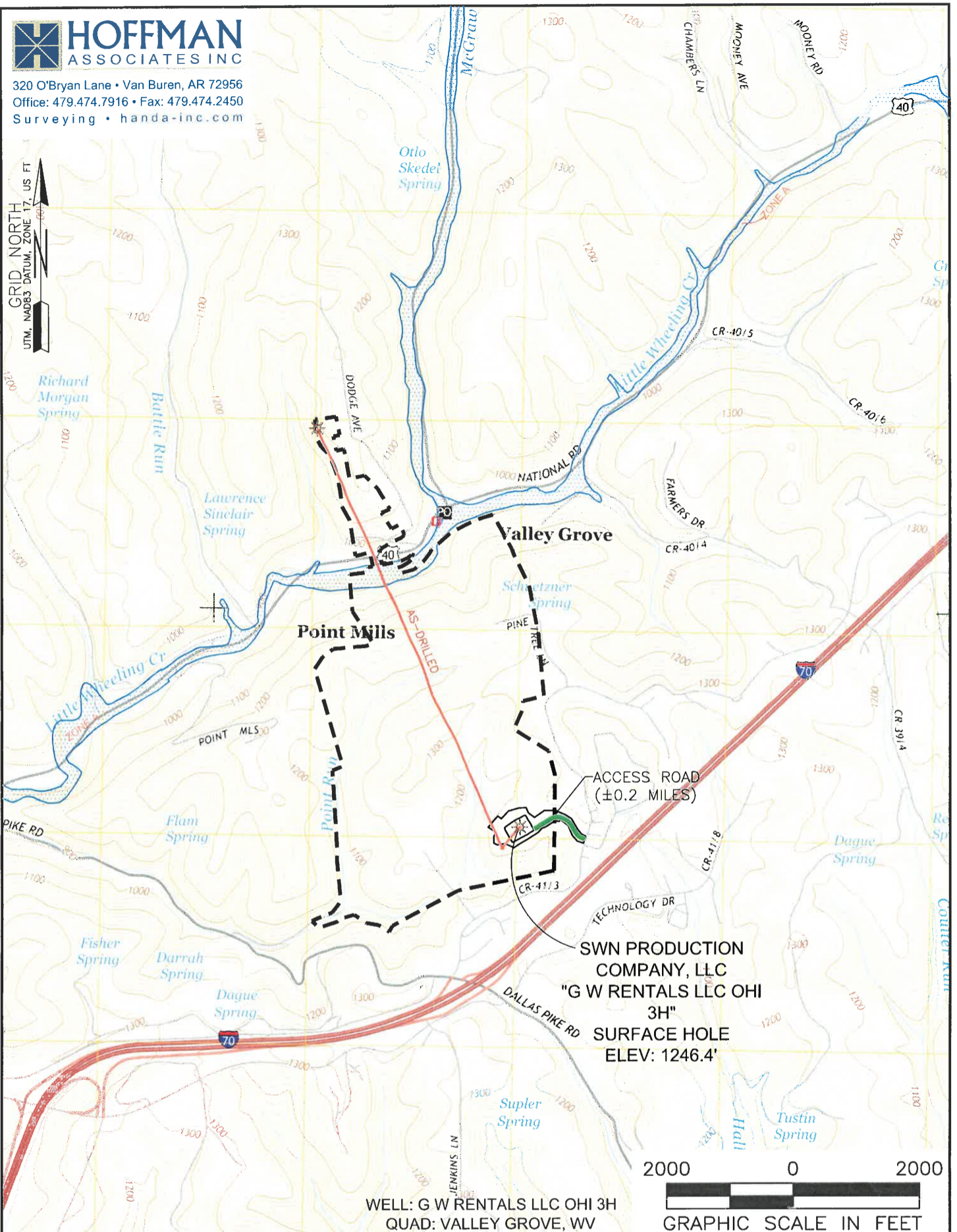
320 O'Bryan Lane • Van Buren, AR 72956  
 Office: 479.474.7916 • Fax: 479.474.2450  
 Surveying • handa-inc.com

**ADJOINING OWNERS**

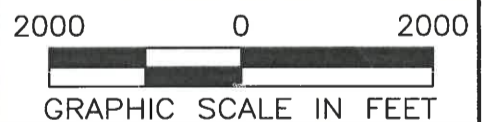
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BUD & DARL INC	6-T9-6.6	2.31
B	JVB RESTAURANT ENTERPRISES LLC	6-T9-6.5	3.88
C	WINDMILL TRUCKERS CENTER INC	6-T9-36.7	16.00
D	HUNTER REALTY PARTNERS, LLC	6-T9-7	15.81
E	CAROL L. HOWARD	6-T9-2	2.34
F	BILLE JO LONG	6-T9-1.1	0.65
G	RANDAL ALAN HOWARD	6-T8-16	5.68
H	KEVIN S KOSEM & B A KOSEM	6-T3-27	164.00
I	JAMES K GIBSON	8-L14-1	34.49
J	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-93	14.80
K	VILLAGE OF VALLEY GROVE	8-VG9-92	0.80
L	RANDY LEE SUTTON SR	8-VG9-50	0.21
M	RANDY LEE SUTTON SR	8-VG9-48	0.21
N	RANDY SUTTON & GRACE SUTTON	8-VG9-46	0.20
O	MILO M MEYER & NORMA J MEYER	8-VG9-44	0.39
P	JOSEPH BRENT PEARSON & WENDY E. PEARSON	8-VG9-34	0.58
Q	GAIL W KAHLE	8-VG9-10	0.52
R	THOMAS J LAPE & SUSAN S LAPE	8-VG9-18	0.48
S	PEGGY BALLER EVERLY & CARL J. EVERLY, JR.	3-L14E-1	0.58
T	ROBERT L ETCHINSON	3-L14A-194	0.38
U	ROBERT L ETCHINSON	3-L14A-196	1.36
V	GAIL W. KAHLE & ANNE M. KAHLE	3-L14A-14	0.37
W	GAIL W. KAHLE & ANNE M. KAHLE	3-L14A-15	0.31
X	ROBERT L ETCHINSON	3-L14A-195	1.46
Y	ROBERT L ETCHINSON	3-L14A-28	1.56
Z	JOHN THOMAS DICK	3-L14A-38	0.72
AA	THELMA R POMPEO & DOMINIC J POMPEO	3-L14A-182	6.26
BB	FRANK PETERS ESTATE	3-L14A-184	4.53
CC	MICHAEL ZINK	3-L14A-83	0.98
DD	JOHN M BORING III & APRIL D BORING	3-L11N-31	4.85
EE	MELVIN KAHLE	3-L14A-118	0.79
FF	MICHAEL A ZINK & PATRICIA J ZINK	3-L14A-192	1.54
GG	MICHAEL A ZINK & PATRICIA ZINK	3-L14A-65	0.38
HH	DAVID E. DAVIS, JR.	3-L14A-129	0.85
II	ROBERT L ETCHINSON	3-L14A-141	1.63
JJ	HAROLD K SAYRE	3-L14A-189	4.39
KK	CHARLES J. SAVAGE	3-L14A-174	0.45
LL	CHARLES J. SAVAGE	3-L11-17	0.59
MM	CHARLES J. SAVAGE	3-L14A-176	0.18
NN	ROBERT L. ETCHISON	3-L14A-193	0.57
OO	CHARLES J. SAVAGE	3-L11-17	0.59
PP	CARL J BALLER JR & B J BALLER	8-VG9-23.1	0.85
QQ	TODD M MAXWELL	8-VG9-76.1	0.40
RR	L&M RENTALS, LLC	8-VG9-76	0.49
SS	REBECCA ANN CORNELL & PARKER ADAM CORNELL	8-VG9-72	0.26
TT	REBECCA ANN CORNELL & PARKER ADAM CORNELL	8-VG9-69	0.52
UU	REBECCA CORNELL & P A CORNELL (INFANT)	8-VG9-66	0.60
VV	WENDY PEARSON	8-VG9-55	0.39
WW	ROSALIE M. EARNEST & GLADYS E. MOORE	8-VG9-59.1	0.45
XX	THOMAS J HOWARD	8-VG9-59	0.30
YY	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-94	0.83
ZZ	VALLEY GROVE VOLUNTEER FIRE DEPARTMENT, INC.	8-VG9-93	15.88
AAA	RICHARD K DERROW & ALICIA DERROW	3-L14-3	6.74
BBB	JAMES E LAUDERMILT JR & ASHLEY L LAUDERMILT	3-L14-4	8.62
CCC	WILLIAM E WARD & LOLLYANNE WARD	3-L14-14.4	18.34
DDD	JAMES RICHARD HALL JR & MELLISA RENEE HALL	3-L14-14.14	1.99
EEE	WILLIAM E WARD & L G WARD	3-L14-14.3	1.34
FFF	THOMAS DOEPKEN	3-L14-14	25.00
GGG	LEE J GLESSNER	6-T4-4.5	3.39
HHH	ROBERT B ELLIOTT & KATHY A ELLIOTT	6-T4-4.2	3.71
III	GW RENTALS, LLC	6-T4-4.4	1.72
JJJ	GARY W GLESSNER	6-T4-4.9	9.78
KKK	GW RENTALS, LLC	6-T9-5	13.96
LLL	JAMES W. JOHNSON & BARBARA A. JOHNSON	6-T9-6.7	2.18
MMM	JOANN T MOFFETT	6-T9-6	1.51

REVISIONS:	COMPANY:		
	OPERATOR'S	G W RENTALS LLC OHI	
	WELL #:	3H	
	LOCATION:	TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA	DATE: 1-20-2016 DRAWN BY: K. IRVIN SCALE: N/A DRAWING NO: 59422 ADJOINING OWNERS

GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT



WELL: G W RENTALS LLC OHI 3H  
QUAD: VALLEY GROVE, WV



<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> AN UNNAMED TRIBUTARY OF POINT RUN IS LOCATED ±0.15 MILES NORTHWEST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> NO NEW CROSSINGS.		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		<b>OPERATOR'S</b> G W RENTALS LLC OHI		<b>WELL #:</b> 3H	
<b>FEMA FLOOD INFORMATION:</b> BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0080D; EFFECTIVE JULY 17, 2006.		<b>LOCATION:</b> TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.074295° LONGITUDE: -80.565696°	
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✱ EXISTING / PRODUCING WELLHEAD ✱ ABANDONED WELL ✱ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		● EXISTING SPRING ● EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.091615° LONGITUDE: -80.577036°	
		<b>REVISIONS:</b>		DATE: 11-20-2015 BY: K. IRVIN SCALE: 1" = 2000' DRAWING NO: 59422 TOPOGRAPHIC MAP	

**RECEIVED**  
Office of Oil and Gas  
JAN 26 2017