

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

API 47-069-0016200163 County 69-Ohio District 7-Tridelpia
Quad 648-Valley Grove Pad Name CHARLE FRYE-OHI-PAD1 Field/Pool Name Panhandle Field
Farm name CHARLE FRYE-OHI Well Number 8
Operator (as registered with the OOG) SWN Production Company LLC
Address 10000 Energy Drive City Spring State TX Zip 77389

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4433744.153 Easting 536070.563
Landing Point of Curve Northing 4433612.514 Easting 536051.256
Bottom Hole Northing 4432141.534 Easting 537056.452

Elevation (ft) 1267.5' 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 4/30/13 Date drilling commenced 2/14/15 Date drilling ceased 3/27/15
Date completion activities began 5/26/15 Date completion activities ceased 6/21/15
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 564' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1135' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 627' Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

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Y 626-646
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WV Department of
Environmental Protection
10/09/2015

API 47-069 - 00163 ~~00102~~ Farm name CHARLE FRYE-OHI Well number 8

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	30	20	126	N	F-25/94 ppf		Y
Surface	17.5	13.375	750	N	J-55/54.5 ppf		Y
Coal	12.25	9.625	2,339.70	N	J-55/40 ppf		Y
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	8.75 to 8.5	5.5	12,865	N	HCP-110		Y
Tubing		2.375	6934	N	P-110		N
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	Class A	Grout	19.3	1.19	241.42	Surface	24
Surface	Class A	706	15.6	1.18	833.08	Surface	8
Coal	Class A	844	15.6	1.19	1004.36	Surface	8
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	Class A	2530	15.6	1.19	3010.7	Surface	24
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 12,865' Loggers TD (ft) 12,865'
 Deepest formation penetrated Marcellus Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 5770 TVD

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: 1 bow spring centralizer every third joint TD to Surface Intermediate: 1 bow spring centralizer every third joint TD to Surface Production: 1 solid body centralizer from TD to 30 degrees in the curve, 1 bow spring every third joint from 30 degrees to surface

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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Well API #: 47069001630000	PERFORATION RECORDS					
WELL NAME	STAGE NUMBER	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG	FORMATION
CHARLES FRYE OHI 8	1	5/19/2015	12,491	12,688	42	MARCELLUS
CHARLES FRYE OHI 8	2	5/20/2015	12,231	12,428	42	MARCELLUS
CHARLES FRYE OHI 8	3	5/20/2015	11,971	12,168	42	MARCELLUS
CHARLES FRYE OHI 8	4	5/20/2015	11,711	11,908	42	MARCELLUS
CHARLES FRYE OHI 8	5	5/21/2015	11,451	11,648	42	MARCELLUS
CHARLES FRYE OHI 8	6	5/21/2015	11,191	11,388	42	MARCELLUS
CHARLES FRYE OHI 8	7	5/21/2015	10,931	11,128	42	MARCELLUS
CHARLES FRYE OHI 8	8	5/22/2015	10,671	10,868	42	MARCELLUS
CHARLES FRYE OHI 8	9	5/22/2015	10,411	10,608	42	MARCELLUS
CHARLES FRYE OHI 8	10	5/22/2015	10,151	10,348	42	MARCELLUS
CHARLES FRYE OHI 8	11	5/23/2015	9,891	10,088	42	MARCELLUS
CHARLES FRYE OHI 8	12	5/23/2015	9,635	9,828	42	MARCELLUS
CHARLES FRYE OHI 8	13	5/23/2015	9,371	9,568	42	MARCELLUS
CHARLES FRYE OHI 8	14	5/23/2015	9,111	9,308	42	MARCELLUS
CHARLES FRYE OHI 8	15	5/24/2015	8,851	9,048	42	MARCELLUS
CHARLES FRYE OHI 8	16	5/24/2015	8,591	8,789	42	MARCELLUS
CHARLES FRYE OHI 8	17	5/24/2015	8,331	8,528	42	MARCELLUS
CHARLES FRYE OHI 8	18	5/24/2015	8,071	8,268	42	MARCELLUS
CHARLES FRYE OHI 8	19	5/25/2015	7,811	8,008	42	MARCELLUS
CHARLES FRYE OHI 8	20	5/25/2015	7,551	7,748	42	MARCELLUS
CHARLES FRYE OHI 8	21	5/25/2015	7,291	7,488	42	MARCELLUS
CHARLES FRYE OHI 8	22	5/25/2015	7,031	7,228	42	MARCELLUS

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CHARLES FRYE 8H

LITHOLOGY/FORMATION	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, TVD (FT)	TOP DEPTH, MD (FT)	BOTTOM DEPTH, MD (FT)	QUANTITY AND TYPE OF FLUID
Pittsburgh Coal	627	642	627	642	NA
Big Injun (ss)	1681	2006	1681	2006	100 bbl/hr water
Rhinestreet (shale)	5851	6141	5880	6191	NA
Cashaqua (shale)	6141	6219	6191	6290	NA
Middlesex (shale)	6219	6288	6290	6387	NA
Burket (shale)	6288	6320	6387	6436	NA
Tully (ls)	6320	6351	6436	6488	NA
Mahantango (shale)	6351	6486	6488	6786	NA
Marcellus (shale)	6486		6786		gas

69-00163

64-00163

Well API #: 47069001630000	STIMULATION INFORMATION PER STAGE									
	WELL NAME	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
CHARLES FRYE OHI 8	1	5/19/2015	97	7,641	8,412	4,472	501,207	7,669		
CHARLES FRYE OHI 8	2	5/20/2015	102	7,885	8,571	4,553	500,233	7,150		
CHARLES FRYE OHI 8	3	5/20/2015	102	7,918	8,675	4,782	500,618	7,167		
CHARLES FRYE OHI 8	4	5/20/2015	101	7,905	8,300	4,314	503,668	7,385		
CHARLES FRYE OHI 8	5	5/21/2015	102	7,672	8,495	4,377	500,609	7,128		
CHARLES FRYE OHI 8	6	5/21/2015	102	7,413	8,619	4,425	499,541	7,127		
CHARLES FRYE OHI 8	7	5/21/2015	103	7,824	9,333	4,733	483,106	7,217		
CHARLES FRYE OHI 8	8	5/22/2015	104	7,590	9,065	4,436	501,203	7,186		
CHARLES FRYE OHI 8	9	5/22/2015	100	7,817	8,729	4,186	502,829	8,644		
CHARLES FRYE OHI 8	10	5/22/2015	102	7,241	7,911	4,403	505,023	7,158		
CHARLES FRYE OHI 8	11	5/23/2015	103	7,395	7,838	4,797	494,818	7,137		
CHARLES FRYE OHI 8	12	5/23/2015	103	7,229	8,917	4,651	502,543	7,180		
CHARLES FRYE OHI 8	13	5/23/2015	102	7,363	8,858	4,818	499,731	7,102		
CHARLES FRYE OHI 8	14	5/23/2015	103	7,405	7,727	4,527	503,131	6,967		
CHARLES FRYE OHI 8	15	5/24/2015	104	7,159	7,586	4,746	486,386	6,865		
CHARLES FRYE OHI 8	16	5/24/2015	102	7,235	8,781	4,637	503,728	7,674		
CHARLES FRYE OHI 8	17	5/24/2015	102	7,081	8,717	4,951	501,219	6,949		
CHARLES FRYE OHI 8	18	5/24/2015	101	7,097	7,569	4,707	505,876	6,926		
CHARLES FRYE OHI 8	19	5/25/2015	100	7,097	7,692	4,452	508,396	7,125		
CHARLES FRYE OHI 8	20	5/25/2015	100	7,316	8,340	4,627	504,397	7,058		
CHARLES FRYE OHI 8	21	5/25/2015	95	6,884	8,363	4,528	502,338	7,078		
CHARLES FRYE OHI 8	22	5/25/2015	101	6,979	7,589	4,394	504,819	6,976		

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/20/2015
Job End Date:	5/25/2015
State:	West Virginia
County:	Ohio
API Number:	47-069-00163-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	OHI FRYE CHARLES 8H
Longitude:	-80.56583000
Latitude:	40.03864000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,614
Total Base Water Volume (gal):	6,672,456
Total Base Non Water Volume:	0



64-00163

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	82.66182	
Sand, White, 40/70	Baker Hughes	Proppant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		9.65370	
Sand, White, 100 mesh	Baker Hughes	Proppant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		6.37980	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		1.17457	SmartCare Product
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.07430	SmartCare Product
Ferrotrol 300L	Baker Hughes	Iron Control					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00807	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00236	
GBW-5	Baker Hughes	Breaker					

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		MSDS and Non-MSDS Ingredients Listed Below	N/A	0.00061	SmartCare Product
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.					
Ingredients in Additive (s) (MSDS and non- MSDS)	Baker Hughes	See Trade Name(s) List			
		Crystalline Silica (Quartz)	14808-60-7	100.00000	16.02483
		Water	7732-18-5	85.00000	1.04662
		Hydrochloric Acid	7647-01-0	15.00000	0.17609
		1-Propanesulfonic acid, 2- methyl-2-[[1-oxo-2-propen-1-yl] amino]-, polymer with 2- propenamide, sodium salt	83446-68-8	60.00000	0.04455
		Hydrotreated Light Distillate	64742-47-8	30.00000	0.02228
		Citric Acid	77-92-9	60.00000	0.00484
		Oxyalkylated alcohol	78330-21-9	5.00000	0.00371
		Polyoxyethylene sorbitan monooleate	9005-65-6	5.00000	0.00371
		Sorbitan, mono-(9Z)-9- octadecenoate	1338-43-8	5.00000	0.00371
		Sodium Chloride	7647-14-5	5.00000	0.00371
		Oxyalkylated Fatty Acid	61791-002	40.00000	0.00094
		Formic Acid	64-18-6	30.00000	0.00071
		Tar Bases, Quinoline Derivs., Benzyl Chloride-Quaternized	72480-70-7	30.00000	0.00071
		Aldehyde	104-55-2	30.00000	0.00071
		Ammonium Persulphate	7727-54-0	100.00000	0.00061
		Isopropanol	67-63-0	5.00000	0.00012
		Quaternary Ammonium Compound	100765-57-9	5.00000	0.00012
		Sulfurized polyolefin	68037-13-8	5.00000	0.00012
		Potassium Iodide	7681-11-0	2.00000	0.00005
		Polyaklylene	7756-94-7	1.00000	0.00002
		Potassium Acetate	127-08-2	0.50000	0.00001

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* 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)

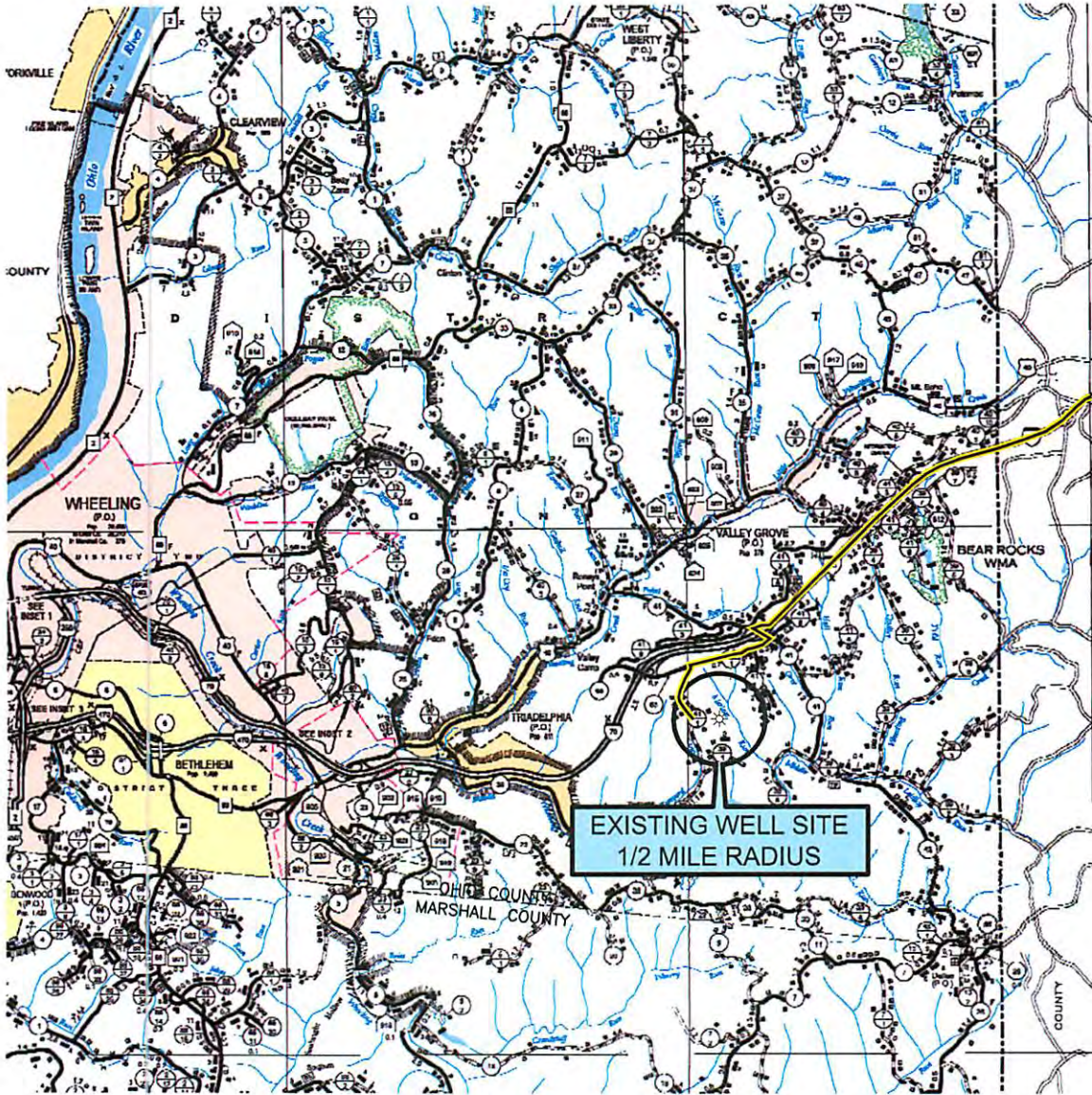
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GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



EXISTING WELL SITE
1/2 MILE RADIUS

ACCESS ROAD COORDINATES (NAD 83):
LEAVE PUBLIC ROAD LAT: 40.054421° / LONG: -80.581823°
ENTER WELL SITE LAT: 40.053584° / LONG: -80.578284°



GENERAL HIGHWAY MAP
OHIO COUNTY
WEST VIRGINIA

PREPARED BY
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
PLANNING DIVISION

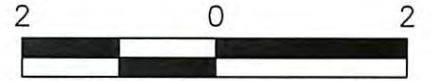
IN COOPERATION WITH
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



GENERAL HIGHWAY MAP
MARSHALL COUNTY
WEST VIRGINIA

PREPARED BY
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
PLANNING DIVISION

IN COOPERATION WITH
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



GRAPHIC SCALE IN MILES

DRIVING DIRECTIONS:
DRIVING DIRECTIONS:
FROM THE INTERSECTION OF HACKERS CREEK ROAD AND I-79N (EXIT 105) IN JANE LEW, WEST VIRGINIA; TRAVEL NORTH ON I-79 FOR ±92.4 MILES TO I-70W; BEAR LEFT ONTO I-70W AND TRAVEL ±20.9 MILES TO DALLAS PIKE (EXIT 11); TURN LEFT (EAST) ONTO DALLAS PIKE AND TRAVEL ±0.1 MILES TO MCCUTCHEON ROAD; TURN RIGHT (SOUTHWEST) ONTO MCCUTCHEON ROAD AND TRAVEL ±1.0 MILES; TURN LEFT (SOUTH) ONTO MCCUTCHEON ROAD AND TRAVEL ±0.7 MILES TO EXISTING SWN PRODUCTION COMPANY, LLC "CHARLES FRYE OHI" ACCESS ROAD; TURN LEFT (EAST) ONTO EXISTING ACCESS ROAD AND TRAVEL ±0.2 MILES TO EXISTING SWN PRODUCTION COMPANY, LLC "CHARLES FRYE OHI" GAS WELL PAD.

DRIVING PRECAUTIONS:
DRIVING DIRECTIONS NOT PROVIDED BY SWN.

DISTANCE / DIRECTION FROM NEAREST TOWN:
±1.7 MILES SOUTHEAST FROM VALLEY CAMP, WEST VIRGINIA 26059

LEGEND:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE — DRIVING DIRECTION ROUTE
⊙ EXISTING / PRODUCING WELLHEAD
⊘ ABANDONED WELL
⊗ PLUGGED & ABANDONED WELL
△ CUT CONDUCTOR

COMPANY:	SWN Production Company, LLC	SWN Production Company™
OPERATOR'S	CHARLES FRYE OHI	
WELL #:	8H	
LOCATION:	TRIDELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA	
SURFACE HOLE LOCATION:	GEOGRAPHIC (NAD83): LATITUDE: 40.053169° LONGITUDE: -80.577101°	
BOTTOM HOLE LOCATION:	GEOGRAPHIC (NAD83): LATITUDE: 40.038688° LONGITUDE: -80.565634°	
REVISIONS:	DATE: 08-25-2015	10/09/2015
	DRAWN BY: S. HUTSON	Office of Oil and Gas
	SCALE: 1" = 2 MILES	SEP 08 2015
	DRAWING NO: 59061-001	
	DRIVING DIRECTION MAP	



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LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 29°27'25" E	1233'	SHL TO LANDMARK	PARCEL CORNER
L2	S 61°05'29" E	1932'	SHL TO LANDMARK	PARCEL CORNER
L3	S 37°17'05" W	20.39'	SHL TO REF. PNT.	CHARLES FRYE OHI 3H WELL HEAD (069-00079)
L4	S 50°46'42" E	27.76'	SHL TO REF. PNT.	CHARLES FRYE OHI 10H WELL HEAD (069-00091)
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	S 08°20'41" W	436.44'		SHL TO LP
L6	S 34°20'48" E	5845.23'		LP TO BHL

Latitude: 40°05'00"

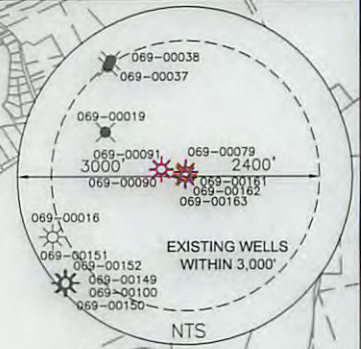
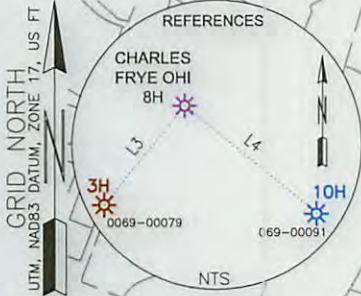
Longitude: 80°32'30"

NOTES ON SURVEY

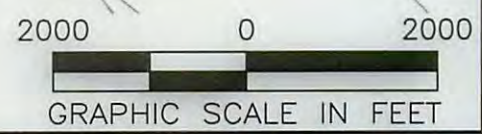
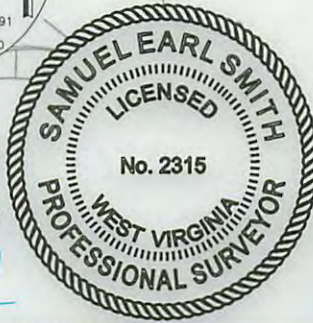
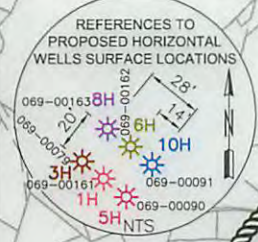
- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT 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 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	CHARLES FRYE & DOROTHY FRYE (S) DOROTHY V FRYE (R)	06-T14-01	105.00
2	ZACHARY ALLAN MEYER (S) ZACHARY MEYER & JENNIFER MEYER (R)	06-T14-02	91.58
3	DONALD MOFFITT JR & L L MOFFITT (S) DONALD L MOFFITT JR & LINDA J MOFFITT (R) DAVID R MOFFITT (R) JUDITH L REBICH (R)	06-T14-03.3	1.649
4	DAVID R MOFFITT & LINDA J MOFFITT (S/R)	06-T14-03	34.231
5	REGINA A CONKLIN & HENRY M CONKLIN (S) REGINA A CONKLIN & HENRY J CONKLIN (R)	06-T14-03.4	1.048
6	DAVID R MOFFITT & L J MOFFITT (S) DAVID R MOFFITT & LINDA J MOFFITT (R)	06-T14-03.2	2.00
7	JUSTUS LUZADER JR, LIFE ESTATE (S) JUSTUS LUZADER JR (R)	06-T14-11	57.513
8	RICHARD J LUZADER (S/R)	06-T14-11.1	14.992
9	JASON GRAY & NICOLE L GRAY (S) RICHARD J LUZADER (R)	06-T14-11.3	5.00
10	KIRK LUZADER & JUDY LUZADER (S) KIRK D LUZADER & JUDY L LUZADER (R)	06-T14-11.2	14.365
11	KIRK D LUZADER & JUDY L LUZADER (S/R)	06-T14-11.4	6.94
12	CHRISTY M BOPP (S/R)	06-T14-10	54.866

SWN PRODUCTION COMPANY, LLC
"CHARLES FRYE OHI 8H"
SURFACE HOLE
ELEV: 1267.4'



SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 40.053169° LONGITUDE: -80.577101°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,546,375.541 EASTING: 1,758,758.170
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,433,744.133 EASTING: 536,070.563
LANDING POINT LOCATION (LPL):	
GEOGRAPHIC (NAD83):	LATITUDE: 40.051984° LONGITUDE: -80.577335°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,545,943.721 EASTING: 1,758,694.830
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,433,612.514 EASTING: 536,051.256
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 40.038688° LONGITUDE: -80.565634°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,541,117.681 EASTING: 1,761,992.710
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,432,141.534 EASTING: 537,056.452



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.

P.S. 2315

Samuel Earl Smith

COMPANY: **SWN** **SWN** ^{R-V+}
Production Company, LLC Production Company™

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: CHARLES FRYE OHI 8H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	API WELL #: 47 69 00163H6A STATE COUNTY PERMIT

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

WATERSHED: MIDDLE WHEELING CREEK ELEVATION: 1267.4'

DISTRICT: TRIDELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE

SURFACE OWNER: CHARLES FRYE & DOROTHY FRYE ACREAGE: ±105.00

OIL & GAS ROYALTY OWNER: DOROTHY V FRYE ACREAGE: ±105.00

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,614' TD 12,665' IMD

10/09/2015

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE:
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊗ EXISTING / PRODUCING WELL HEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR 	<ul style="list-style-type: none"> --- LEASE BOUNDARY --- 500' DHP BUFFER - - - MAR 1 - - - MARCELLUS DHP --- ABANDONED PATH 	08-25-2015 DRAWN BY: S. HUTSON SCALE: 1" = 2000' DRAWING NO: 59061 WELL LOCATION PLAT