

05/31/2019

WR-35
Rev (9-11)

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

DATE: 08/23/2012
API #: 47-3305480

Farm name: Cather, H. Dotson - Trustee Operator Well No.: Goff 9HM

LOCATION: Elevation: 1,290 GL / 1,308 KB Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 3 491 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 2,323 Feet West of 80 Deg. 22 Min. 30 Sec.

Company: PDC Mountaineer

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
120 Genesis Blvd. Bridgeport, WV 26330	20"	60'	60'	cmt to surf
Agent: <u>Bob Williamson</u>	13 3/8"	444'	444'	406
Inspector: <u>Tim Bennett</u>	9 5/8"	2,621'	2,621'	970
Date Permit Issued: <u>10/06/2010</u>	5 1/2"	11,806'	11,806'	1587
Date Well Work Commenced: <u>11/28/2010</u>				
Date Well Work Completed: <u>03/17/2011</u>				
Verbal Plugging:	2 3/8"		7483'	
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>7232'</u>				
Total Measured Depth (ft): <u>11,834</u>				
Fresh Water Depth (ft.): <u>284'</u>				
Salt Water Depth (ft.): <u>None Reported</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>None Reported - Air/Mist Drilled</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7082
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 5323 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 720 Hours
Static rock Pressure 3300 psig (surface pressure) after 72 Hours

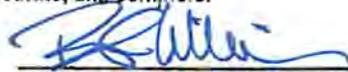
Second producing formation N/A Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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SEP 11 2017

WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

8-30-2012
Date

Were core samples taken? Yes _____ No XX

Were cuttings caught during drilling? Yes XX No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Mudlog from 2650', Directional Surveys, TVD & MD Gamma Ray LWD (5745-TD)), Cased Hole Sonic Scanner log with Bond Log & CCL to 7570'. No GR logs run above 5400'.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated interval 7,990 ft – 11,700ft (600 shots). Frac'd 12 stages using 285 bbls 15% HCL, and 102,800 bbls of Slickwater carrying 964,000 lbs of 100-mesh sand, 3,733,000 lbs of 40/70 sand, and 244,000 lbs of 30/50 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: _____ **Top Depth** _____ / _____ **Bottom Depth**
Surface: _____

Formations Encountered:	Top Depth	Bottom Depth
Sycamore Grit	*6396	6424
Geneseo SH	6872	6892
Tully LS	6892	6958
Hamilton	6958	7082
Marcellus SH	7082	11,834'MD

* All depths are TVD unless noted as MD.

KOP at 5821'MD & LP at 8015'MD (7172'TVD)

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Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	3/7/2011
State:	West Virginia
County:	Harrison
API Number:	4703305480
Operator Name:	PDC Mountaineer
Well Name and Number:	Goff 9HM
Longitude:	-80.383194
Latitude:	39.28225
Long/Lat Projection:	NAD27
Production Type:	Gas
True Vertical Depth (TVD):	7,160
Total Water Volume (gal)*:	4,405,000

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		Carrier/Base Fluid			100.00%	87.38071%	
Sand		Proppant			100.00%	12.38394%	
15% HCL	BHI	Pre-PAD	Hydrochloric Acid	7647-01-0	15.00%	0.04915%	
Alpha - 114	BHI	Biocide	Glutaraldehyde	00111-30-8	15.00%	0.00155%	
			n-alkyl dimethyl benzyl ammonium chloride	00139-08-2	5.00%	0.00052%	
Scaletrol 720	BHI	Scale Inhibitor	Ethylene glycol	000107-21-1	45.00%	0.00669%	
			Diethylene glycol	000111-46-6	5.00%	0.00074%	
Gasflo	BHI	Surfactant	2-Butoxyethanol	000111-76-2	20.00%	0.02243%	
			Methanol	000067-56-1	30.00%	0.03365%	
GW-3LDF	BHI	Gel	Guar Gum	009000-30-0	40.00%	0.00194%	
FRW-18	BHI	Friction Reducer	Hydrotreated light distillate	064742-47-8	30.00%	0.11653%	
Cl-14	BHI	Corrosion inhibitor	Methanol	67-56-1	68.00%	0.00078%	
			Propargyl alcohol	107-19-1	5.00%	0.00004%	
Ferrotrol 300L	BHI	Iron Control	Citric Acid	000077-92-9	70.00%	0.00131%	

* 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%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

05/31/2019



September 9, 2017

Office of Oil & Gas
Attn: Melanie Hankins
601 57th Street SE
Charleston, WV 25304

RECEIVED
Office of Oil and Gas

SEP 11 2017

WV Department of
Environmental Protection

Dear Ms. Hankins:

Enclosed please find the check, WR-34, WR-35, Frac Focus Report, and the As-Drilled Plat for Goff 9HM. Please let me know if you have any questions or need any additional information.

Thank you,

Amy Miller

Amy Miller
Permitting Technician
1-724-940-1225
amiller@arsenalresources.com

Check# 108120
Amt. \$50.00
Date 8/31/17

GOFF LEASE 1,088 ACRES± WELL NO. GOFF 9HM (REVISED) 47-033-5480

WELL NO. 9HM BEND POINT STATE PLANE COORDINATES (NORTH ZONE NAD '27)	
N. 285,974	E. 1,749,402
BEND POINT (NAD'27) LAT=(N) 39°16'54.4" LONG=(W) 80°23'07.1"	
BEND POINT (NAD'83) LAT=(N) 39°16'54.7" LONG=(W) 80°23'06.4"	
BEND POINT UTM (NAD'83) N. 4,348,237 E. 553,033	

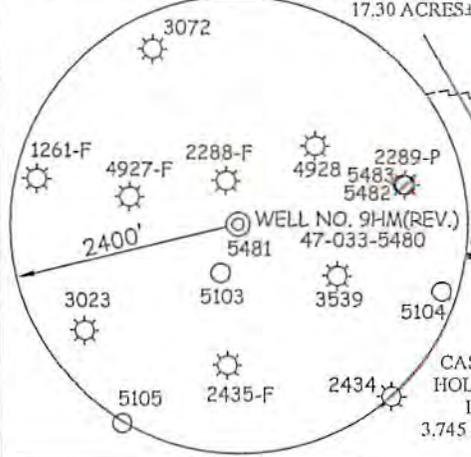
05/31/2019

NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES, AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 70 PAGE 152 AND ADJOINING DEEDS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN JULY, 2009
4. WELL COORDINATES ESTABLISHED BY DGPS (SURVEY GRADE).
5. PLAT UPDATED 07-26-17 TO SHOW AS DRILLED DATA PROVIDED BY ARSENAL RESOURCES.

WELL NO. 9HM (REVISED) TOP HOLE STATE PLANE COORDINATES (NORTH ZONE NAD '27)	
N. 286,213	E. 1,749,931
TOP HOLE (NAD'27) LAT=(N) 39°16'56.8" LONG=(W) 80°23'00.4"	
TOP HOLE (NAD'83) LAT=(N) 39°16'57.1" LONG=(W) 80°22'59.7"	
TOP HOLE UTM (NAD'83) N. 4,348,312 E. 553,193	
WELL NO. 9HM BOTTOM HOLE STATE PLANE COORDINATES (NORTH ZONE NAD '27)	
N. 281,100	E. 1,750,261
BOTTOM HOLE (NAD'27) LAT=(N) 39°16'06.3" LONG=(W) 80°22'55.5"	
BOTTOM HOLE (NAD'83) LAT=(N) 39°16'06.6" LONG=(W) 80°22'54.9"	
BOTTOM HOLE UTM (NAD'83) N. 4,346,756 E. 553,319	

NORTH



LEGEND	
AS DRILLED	
PROPOSED	

AS DRILLED COORDINATES FOR WELL NO. 9HM			
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD27 S.P.C.(FT)	N. 286,213	E. 1,749,931	
NAD27 GEO.	LAT=(N) 39°16'56.8"	LONG=(W) 80°23'00.4"	
NAD83 GEO.	LAT=(N) 39°16'57.1"	LONG=(W) 80°22'59.7"	
NAD83 UTM (M)	N. 4,348,312	E. 553,193	
BOTTOM HOLE			
NAD27 S.P.C.(FT)	N. 281,774.0	E. 1,750,810.8	
NAD27 GEO.	LAT=(N) 39°16'13.0"	LONG=(W) 80°22'48.6"	
NAD83 GEO.	LAT=(N) 39°16'13.3"	LONG=(W) 80°22'48.0"	
NAD83 UTM (M)	N. 4,346,964.2	E. 553,483.3	

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677
Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 18, 20 10
REVISED 11/02/10, 07/26/17
OPERATORS WELL NO. GOFF NO. 9HM (REVISED)
API WELL NO. 47
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8705P9HMAD
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 1000'

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



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

LOCATION: ELEVATION 1,290' WATERSHED DAVISSON RUN
DISTRICT COAL COUNTY HARRISON RECEIVED Office of Oil and Gas QUADRANGLE WOLF SUMMIT 7.5'

SURFACE OWNER H. DOTSON CATHER, TRUSTEE ACREAGE 404.34±
ROYALTY OWNER H. DOTSON CATHER, TRUSTEE LEASE ACREAGE 1,088±

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 SHALE
ESTIMATED DEPTH 7,160' TVD/ 12,800' MD

WELL OPERATOR PDC MOUNTAINEER, LLC DESIGNATED AGENT GARY W. FRIDLEY
ADDRESS 120 GENESIS BOULEVARD ADDRESS 120 GENESIS BOULEVARD
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME
PERMIT

GOFF LEASE 1,088 ACRES± WELL NO. GOFF 9HM(REVISED) 47-033-5480

WELL NO. 9HM BEND POINT STATE PLANE COORDINATES (NORTH ZONE NAD 27)	
N. 285,974	E. 1,749,402
BEND POINT (NAD'27)	
LAT=(N) 39°16'54.4"	LONG=(W) 80°23'07.1"
BEND POINT (NAD'83)	
LAT=(N) 39°16'54.7"	LONG=(W) 80°23'06.4"
BEND POINT UTM (NAD'83)	
N. 4,348,237	E. 553,033

LATITUDE 39° 17' 30"
LONGITUDE 80° 22' 30"

05/31/2019

NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES, AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 70 PAGE 152 AND ADJOINING DEEDS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN JULY, 2009
4. WELL COORDINATES ESTABLISHED BY DGPS(SURVEY GRADE).
5. PLAT UPDATED 07-26-17 TO SHOW AS DRILLED DATA PROVIDED BY ARSENAL RESOURCES.

WELL NO. 9HM(REVISED) TOP HOLE STATE PLANE COORDINATES (NORTH ZONE NAD'27)	
N. 286,213	E. 1,749,931
TOP HOLE (NAD'27)	
LAT=(N) 39°16'56.8"	LONG=(W) 80°23'00.4"
TOP HOLE (NAD'83)	
LAT=(N) 39°16'57.1"	LONG=(W) 80°23'00.4"
TOP HOLE UTM (NAD'83)	
N. 4,348,312	E. 553,193
WELL NO. 9HM BOTTOM HOLE STATE PLANE COORDINATES (NORTH ZONE NAD'27)	
N. 281,100	E. 1,750,261
BOTTOM HOLE (NAD'27)	
LAT=(N) 39°16'06.3"	LONG=(W) 80°22'55.5"
BOTTOM HOLE (NAD'83)	
LAT=(N) 39°16'06.6"	LONG=(W) 80°22'54.9"
BOTTOM HOLE UTM (NAD'83)	
N. 4,346,756	E. 553,319

NORTH



LEGEND	
AS DRILLED	—
PROPOSED	- - - -

AS DRILLED COORDINATES FOR WELL NO. 9HM			
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)			
NAD27 S.P.C. (FT)	N. 286,213	E. 1,749,931	
NAD27 GEO.	LAT=(N) 39°16'56.8"	LONG=(W) 80°23'00.4"	
NAD83 GEO.	LAT=(N) 39°16'57.1"	LONG=(W) 80°22'59.7"	
NAD83 UTM (M)	N. 4,348,312	E. 553,193	
BOTTOM HOLE			
NAD27 S.P.C. (FT)	N. 281,100	E. 1,750,261	
NAD27 GEO.	LAT=(N) 39°16'06.3"	LONG=(W) 80°22'55.5"	
NAD83 GEO.	LAT=(N) 39°16'06.6"	LONG=(W) 80°22'54.9"	
NAD83 UTM (M)	N. 4,346,756	E. 553,319	

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P.S. 677
Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 18, 2010
REVISED 11/02/10, 07/26/17
OPERATORS WELL NO. GOFF NO. 9HM(REVISED)
API WELL NO. 47-033-05480
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8705P9HMAD
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 1000'

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

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

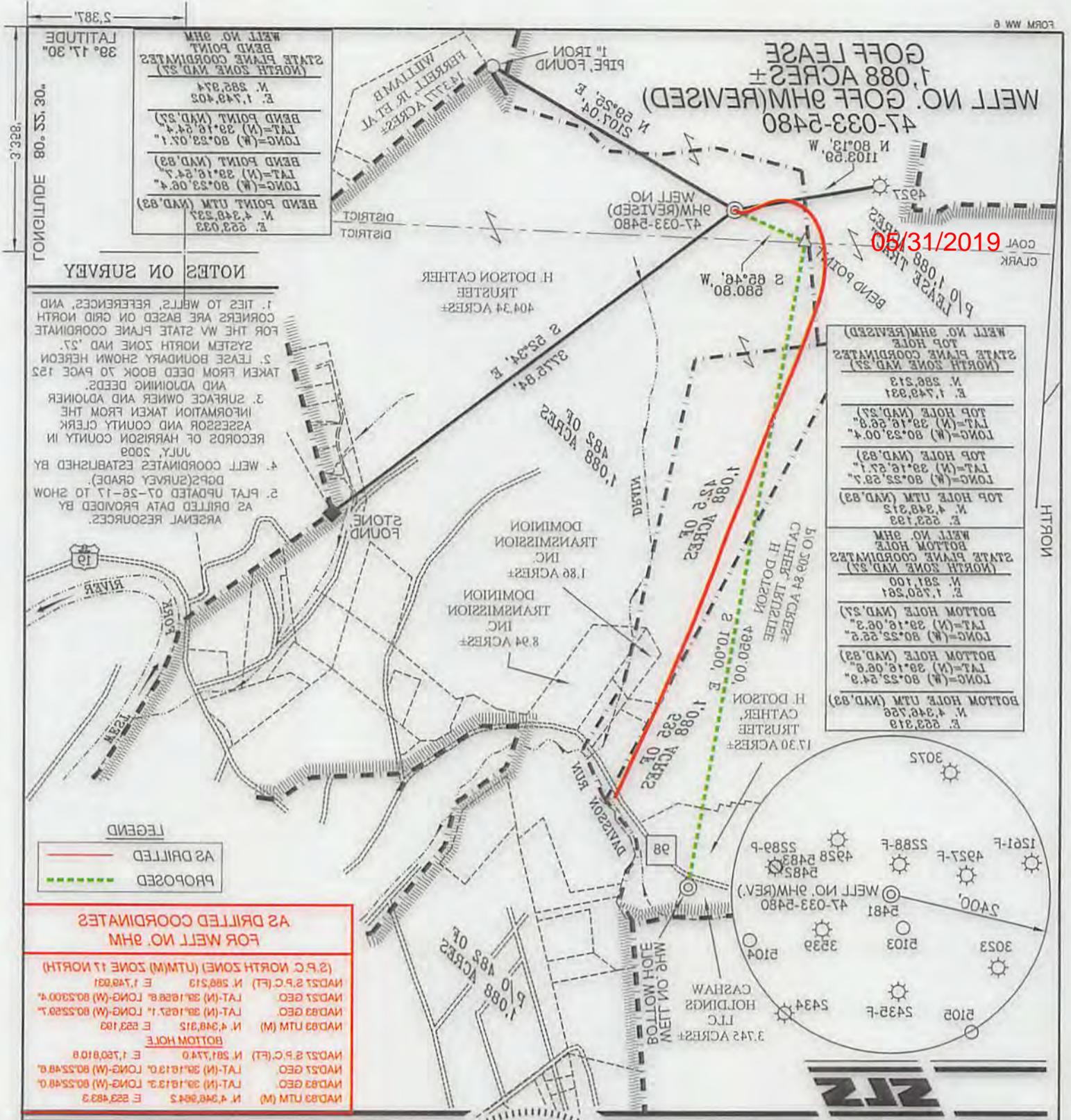
LOCATION: ELEVATION 1,290' WATERSHED DAVISSON RUN
DISTRICT COAL COUNTY HARRISON QUADRANGLE WOLF SUMMIT 7.5'

SURFACE OWNER H. DOTSON CATHER, TRUSTEE ACREAGE 404.34±
ROYALTY OWNER H. DOTSON CATHER, TRUSTEE LEASE ACREAGE 1,088±

PROPOSED WORK: LEASE NO. _____
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 SHALE
ESTIMATED DEPTH 7,160' TVD/ 12,800' MD

WELL OPERATOR PDC MOUNTAINEER, LLC DESIGNATED AGENT GARY W. FRIDLEY
ADDRESS 120 GENESIS BOULEVARD ADDRESS 120 GENESIS BOULEVARD
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT



05/31/2019

WELL NO. 9HM
STATE PLANE COORDINATES (NORTH ZONE NAD 83)
N. 285.974
E. 1,748.403
BEND POINT (NAD 83)
LAT=(N) 39°16'54.4"
LONG=(W) 80°23'07.1"
BEND POINT (NAD 83)
LAT=(N) 39°16'54.4"
LONG=(W) 80°23'08.4"
BEND POINT UTM (NAD 83)
N. 4348.237
E. 223.033

WELL NO. 9HM (REVISED)
TOP HOLE
STATE PLANE COORDINATES (NORTH ZONE NAD 83)
N. 288.213
E. 1,748.931
TOP HOLE (NAD 83)
LAT=(N) 39°16'58.8"
LONG=(W) 80°23'00.4"
TOP HOLE (NAD 83)
LAT=(N) 39°16'57.1"
LONG=(W) 80°23'23.7"
TOP HOLE UTM (NAD 83)
N. 4348.212
E. 223.133
WELL NO. 9HM
BOTTOM HOLE
STATE PLANE COORDINATES (NORTH ZONE NAD 83)
N. 281.100
E. 1,750.281
BOTTOM HOLE (NAD 83)
LAT=(N) 39°16'08.3"
LONG=(W) 80°23'25.2"
BOTTOM HOLE (NAD 83)
LAT=(N) 39°16'08.8"
LONG=(W) 80°23'24.9"
BOTTOM HOLE UTM (NAD 83)
N. 4348.756
E. 223.319

NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES, AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD 83.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 70 PAGE 152 AND ADJOINING DEEDS.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN JULY, 2009.
4. WELL COORDINATES ESTABLISHED BY DGS (SURVEY GRADE).

2. PLAT UPDATED 07-26-17 TO SHOW AS DRILLED DATA PROVIDED BY ARSENAL RESOURCES.

LEGEND

AS DRILLED (Red line)

PROPOSED (Green dashed line)

AS DRILLED COORDINATES FOR WELL NO. 9HM	
(2 P.C. NORTH ZONE (UTM) ZONE 17 NORTH)	
NAD83 UTM (M)	N. 4348.212 E. 223.133
NAD83 GEO.	LAT=(N) 39°16'57.1" LONG=(W) 80°23'07.1"
NAD83 GEO.	LAT=(N) 39°16'58.8" LONG=(W) 80°23'00.4"
NAD83 UTM (M)	N. 288.213 E. 1,748.931
NAD83 S.P.C. (FT)	N. 285.974 E. 1,748.403
BOTTOM HOLE	
NAD83 UTM (M)	N. 4348.756 E. 223.319
NAD83 GEO.	LAT=(N) 39°16'08.8" LONG=(W) 80°23'24.9"
NAD83 GEO.	LAT=(N) 39°16'08.3" LONG=(W) 80°23'25.2"
NAD83 S.P.C. (FT)	N. 281.100 E. 1,750.281



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 DIVISION OF ENVIRONMENTAL PROTECTION.

GARY W. FRIDLEY

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

DATE AUGUST 18, 2010

REVISED 11/02/10, 07/26/17

OPERATORS WELL NO. GOLF NO. 9HM (REVISED)

WELL NO. 47

COUNTY 033

PERMIT 02480

STATE OF WEST VIRGINIA

DIVISION OF ENVIRONMENTAL PROTECTION

OFFICE OF OIL AND GAS

FILE NO. 870595HMD

SCALE 1" = 100'

DGPS (SURVEY GRADE)

PROVEN SOURCE

OF ELEVATION

MINIMUM DEGREE OF ACCURACY 1/200

WELL TYPE: OIL GAS LIQUID WASTE IF

PRODUCTION STORAGE DEEP SHALLOW

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 SHALE

ESTIMATED DEPTH 7,160' TVDI 12,800' MD

DESIGNATED AGENT GARY W. FRIDLEY

ADDRESS 120 GENESIS BOULEVARD

BRIDGEPORT, WV 26330

WELL OPERATOR PDC MOUNTAINEER, LLC

ADDRESS 120 GENESIS BOULEVARD

BRIDGEPORT, WV 26330

ROYALTY OWNER H. DOTSON CATHER, TRUSTEE

LEASE ACREAGE 1,088±

SURFACE OWNER H. DOTSON CATHER, TRUSTEE

ACREAGE 404.34±

DISTRICT COAL

COUNTY HARRISON

QUADRANGLE WOLF SUMMIT 7.8

ELEVATION 1,250'

WATERSHED DAVISSON RUN