

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

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Office of Oil and Gas

SEP 26 2017

WV Department of
Environmental Protection

API 47-051-01592 County MARSHALL District FRANKLIN
Quad NEW MARTINSVILLE 7.5' Pad Name GOUDY Field/Pool Name _____
Farm name PPG INDUSTRIES, INC Well Number GOUDY 4H
Operator (as registered with the OOG) GASTAR EXPLORATION USA, INC.
Address 229 W MAIN STREET - STE 301 City CLARKSBURG State WV Zip 26301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,398,554.27 Easting 514,673.11
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing 4,398,554.27 Easting 514,673.11

Elevation (ft) 1239' 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)

Date permit issued 11/29/2012 Date drilling commenced 12/18/2012 Date drilling ceased 12/20/2012
Date completion activities began N/A Date completion activities ceased _____
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 N/A (NONE ENCOUNTERED) Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A 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

Approved by: [Signature] Reviewed by: _____
9/20/17

API 47-051 - 01592 Farm name PPG INDUSTRIES, INC Well number GOUDY 4H

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	26"	20"	110'	NEW	PE / 54.5#/ft	N/A	Y
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details The Goudy 4H well had 110' of conductor casing set at 110' TVD. The well was then temporarily abandoned. The original intent was to come back and finished drilling the well to the permitted TMD, however, this never occurred under Gaster's ownership.

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" TYPE 1	297	15.6	1.19	353	SFC	12
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 110' Loggers TD (ft) _____
 Deepest formation penetrated SUFACE MATERIAL Plug back to (ft) _____
 Plug back procedure N/A

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Kick off depth (ft) N/A

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 N/A

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 _____

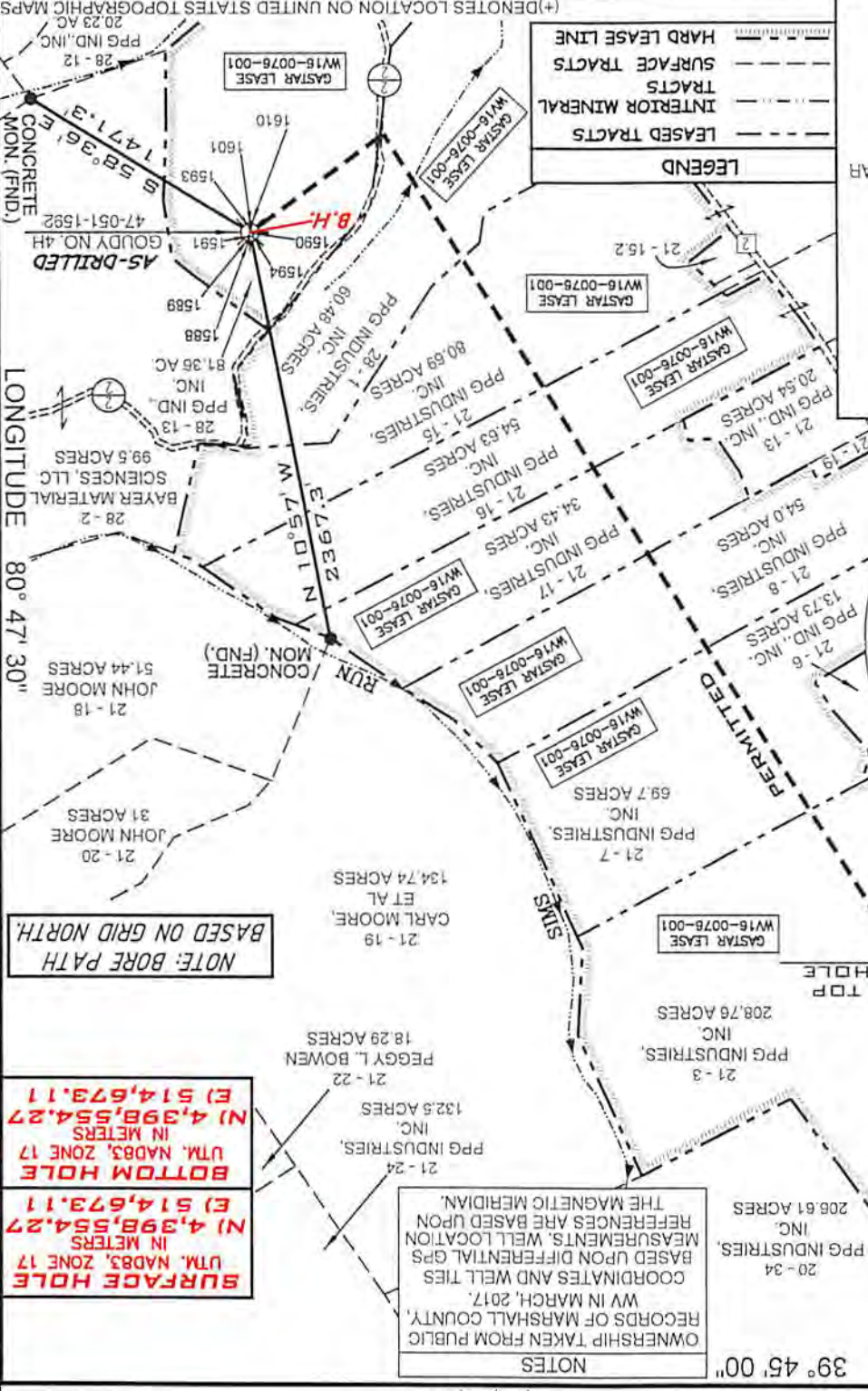
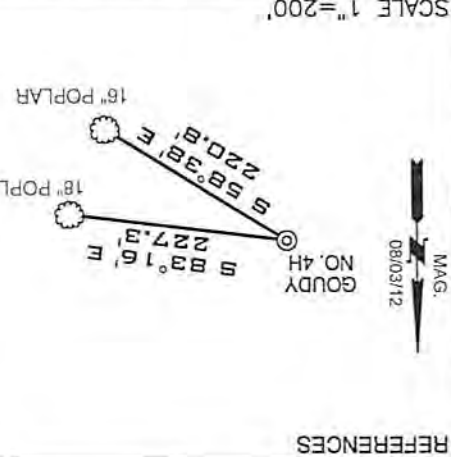
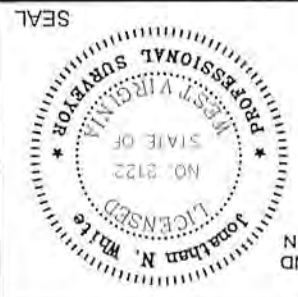
Goudy 4H Cement Additives

Surface: Class A + 3% CaCl + ¼ #per sack flake

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WELL OPERATOR GASTAR EXPLORATION USA, INC. DESIGNATED AGENT MICHAEL McCOWN
 ADDRESS 229 W MAIN STREET, SUITE 301 CLARKSBURG WV, 26301
 COUNTY NAME MARSHALL COUNTY LEASE NUMBER WV16-0076-001
 SURFACE OWNER PPG INDUSTRIES, INC. ACREAGE 81.36
 OIL & GAS ROYALTY OWNER PPG INDUSTRIES, INC. LEASE ACREAGE 644.05
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERMIT TARGET FORMATION MARCELLUS ESTIMATED DEPTH 110'
 PLUG & ABANDON CLEAN OUT & REPLUG
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION ELEVATION 1239' WATERSHED TRIBUTARY OF THE OHIO RIVER
 DISTRICT FRANKLIN COUNTY MARSHALL LEASE NUMBER WV16-0076-001
 STATE COUNTY PERMIT 47-051-01592

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304
 WV Department of Environmental Protection: APRIL 5, 2017
 OPERATORS WELL NO. GOUDY NO. 4H AS-DRILLED
 API WELL NO. 47-051-01592
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 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 P.S. 2122
 FILE NUMBER W0120315 (WB1-55)
 DRAWING NUMBER GOUDY_WP_4H-AD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
 GRADE GPS



WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 CHARLESTON, WV 25304