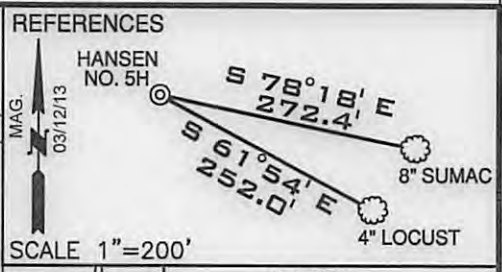


LATITUDE 39° 45' 00"  
**HANSEN LEASE WELL NO. 5H**  
**487.56± ACRES**

NOTES  
 OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2013.  
 COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.



LEGEND

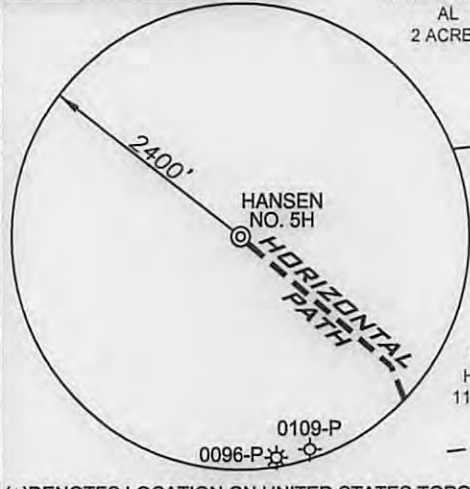
- LEASED TRACTS
- INTERIOR MINERAL TRACTS
- SURFACE TRACTS
- HARD LEASE LINE

**SURFACE HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 N) 4,397,448.1  
 E) 515,917.3  
 UTM. NAD83, ZONE 17  
 IN FEET  
 N) 14,427,294  
 E) 1,692,639

**TARGET POINT 1**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 N) 4,397,052.1  
 E) 516,405.5  
 UTM. NAD83, ZONE 17  
 IN FEET  
 N) 14,425,995  
 E) 1,694,241

**BOTTOM HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 N) 4,395,614.0  
 E) 517,006.7  
 UTM. NAD83, ZONE 17  
 IN FEET  
 N) 14,421,277  
 E) 1,696,213

NOTE: BORE PATH BASED ON GRID NORTH.



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS 88.4 ACRES

FILE NUMBER W0120318 (WB1-62)

DRAWING NUMBER HANSEN\_WP\_5H

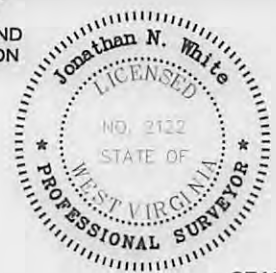
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION SUBMETER MAPPING  
GRADE GPS

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2122 *Jonathan N. White*



WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

DATE: APRIL 08, 2013

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

OPERATORS WELL NO. HANSEN NO. 5H

API WELL NO. 47-051-01649 H6A

STATE WV COUNTY MARSHALL PERMIT                     

LOCATION ELEVATION 1245' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER (0503020110)

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER WV16-0099-000, WV62-0003-001, WV16-0076-001, WV16-0127-001

SURFACE OWNER BAYER MATERIAL SCIENCES, LLC ACREAGE 172.79

OIL & GAS ROYALTY OWNER PPG INDUSTRIES, INC., et al LEASE ACREAGE 487.56

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE (SPECIFY)                     

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6480' + Horizontal Leg

WELL OPERATOR GASTAR EXPLORATION USA, INC. DESIGNATED AGENT MICHAEL McCOWN

ADDRESS 229 W MAIN STREET, SUITE 301 CLARKSBURG WV, 26301 ADDRESS 229 W MAIN STREET, SUITE 301 CLARKSBURG WV, 26301

08/02/2013

LONGITUDE 80° 47' 30"

8,485'

COUNTY NAME PERMIT

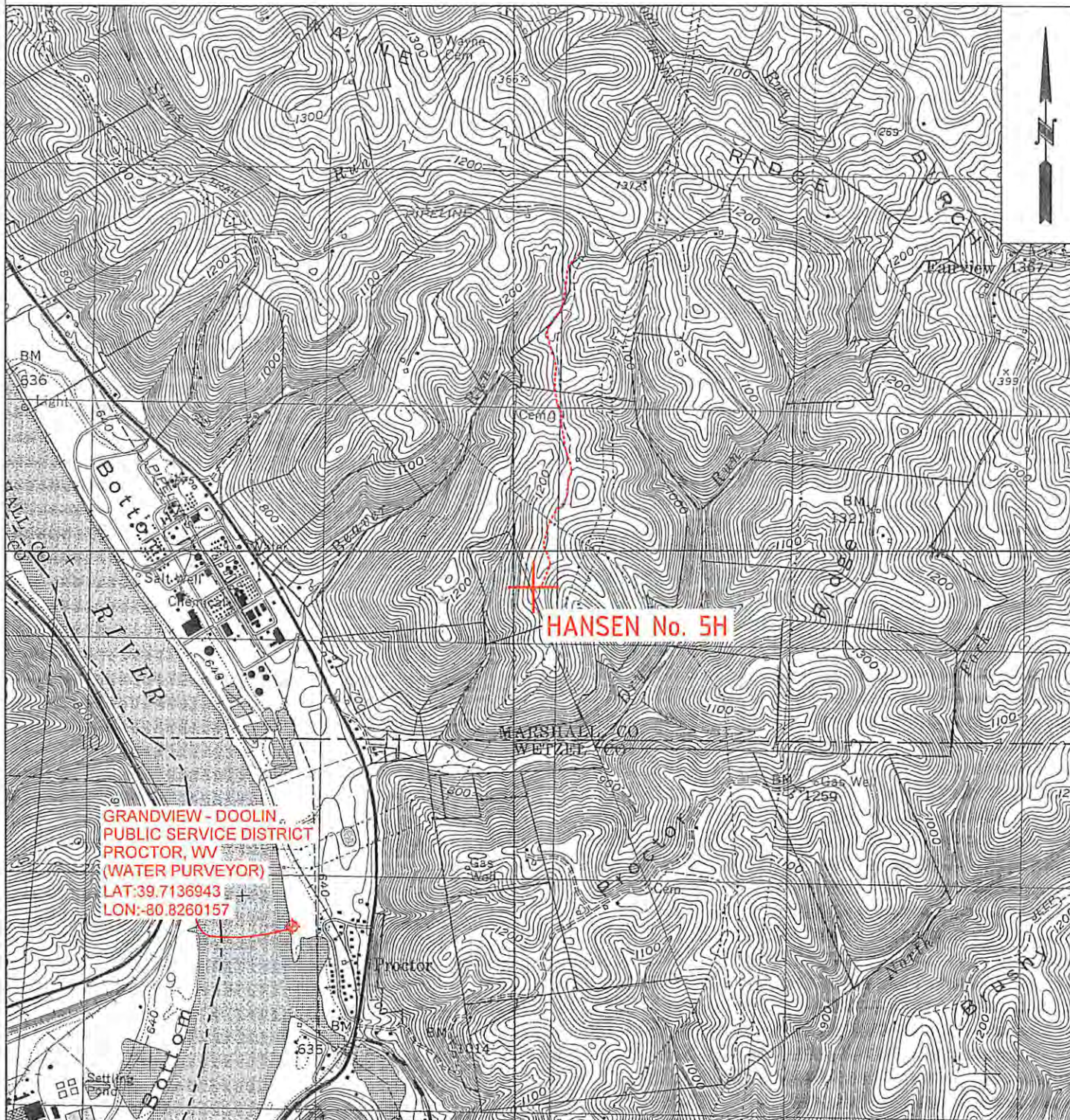


51-01649

WW-9

# PROPOSED HANSEN WELL No. 5H

SUPPLEMENT PG 2



GRANDVIEW - DOOLIN  
PUBLIC SERVICE DISTRICT  
PROCTOR, WV  
(WATER PURVEYOR)  
LAT: 39.7136943  
LON: -80.8260157

WRH  
5-7-13

<b>W0120318</b>	<b>OPERATOR</b>	<b>TOPO SECTION</b>	<b>LEASE NAME</b>
	GASTAR EXPLORATION USA, Inc. 229 W Main Street, Suite 301 Clarksburg, WV 26301	NEW MARTINSVILLE 7.5'	HANSEN
		<b>SCALE:</b> 1"=2000'	<b>DATE:</b> DATE: 03/25/13