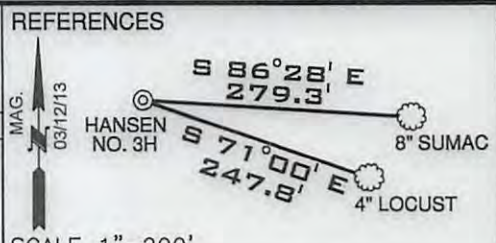


AS-DRILLED

6,425' T.H.  
5,350' B.H.

LATITUDE 39° 45' 00"  
**HANSEN LEASE  
WELL NO. 3H  
487.56± ACRES**

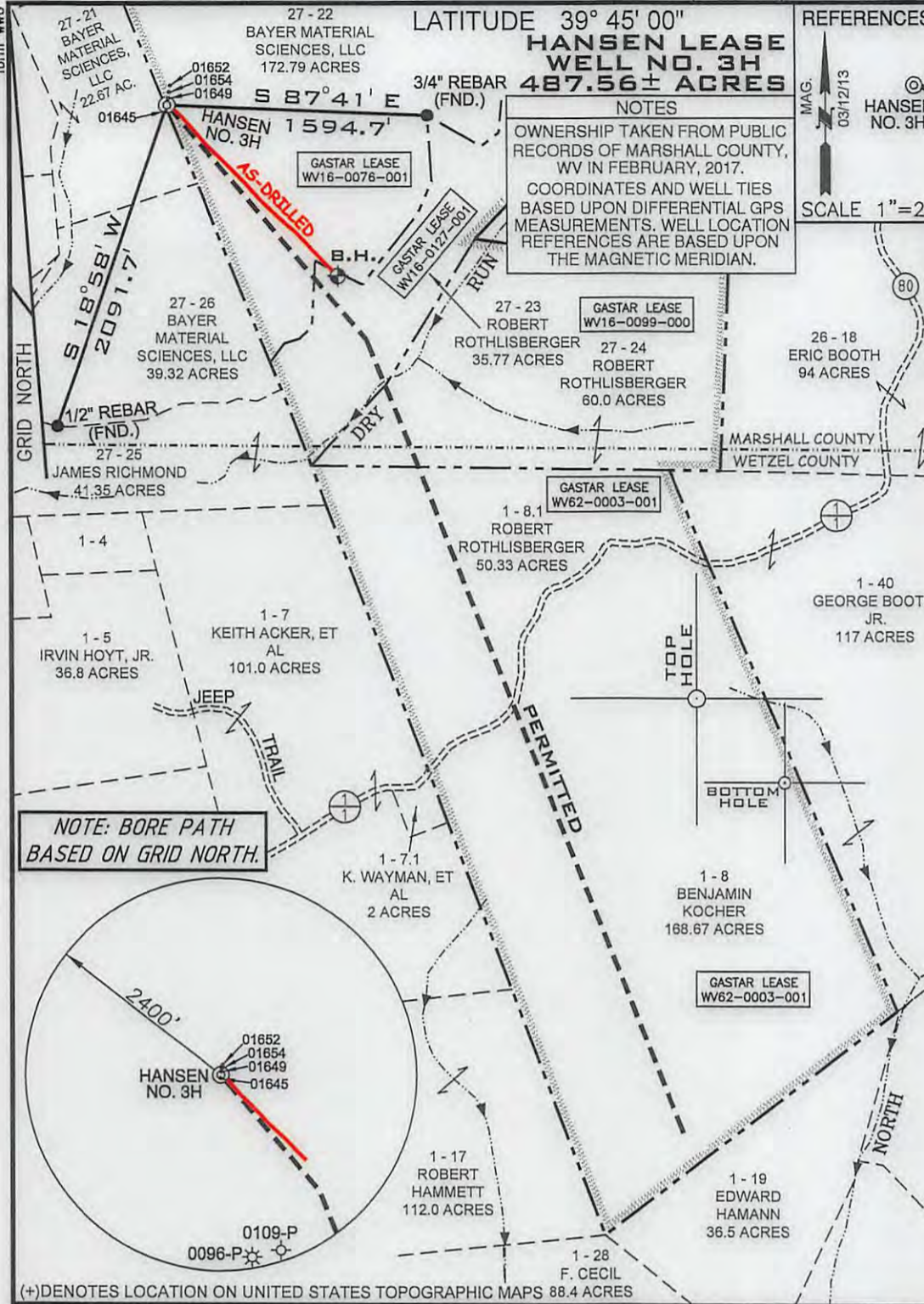


NOTES  
OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN FEBRUARY, 2017.  
COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

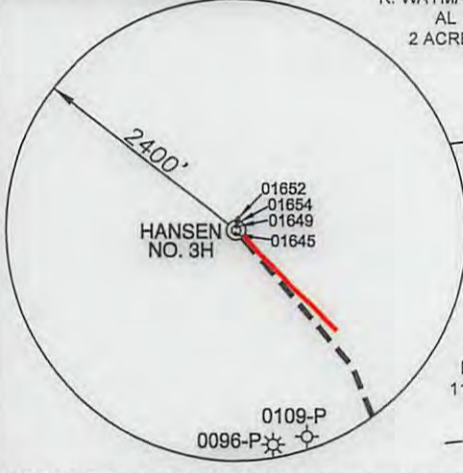
LEGEND	
---	LEASED TRACTS
----	INTERIOR MINERAL TRACTS
-.-.-	SURFACE TRACTS
=====	HARD LEASE LINE

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,397,436.0**  
**E) 515,915.5**

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
**N) 4,397,122.5**  
**E) 516,238.6**



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\_3H-WR35

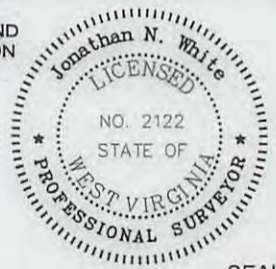
SCALE 1" = 1000'

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. Jonathan N. White  
2122



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

DATE: FEBRUARY 28, 2017

OPERATORS WELL NO. HANSEN NO. 3H AS-DRILLED

API WELL NO. 47-051-01647  
STATE            COUNTY            PERMIT           

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

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 RHINESTREET SHALE FORMATION ESTIMATED DEPTH TVD: 6067' TMD: 6409'

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

05/26/2017

RECEIVED  
Office of Oil & Gas  
MAR 07 2017

COUNTY NAME  
PERMIT