

SURFACE HOLE DEC. LONG: 80.571982  
SURVEYED LONG: 80° 34'19.1"

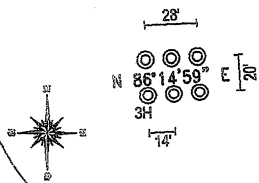
8,470'

Latitude: 40° 15' 00"

Longitude: 80° 32' 30"

SURFACE HOLE DEC. LAT: 40° 14' 47.0"  
SURVEYED LAT: 40° 14' 47.0"

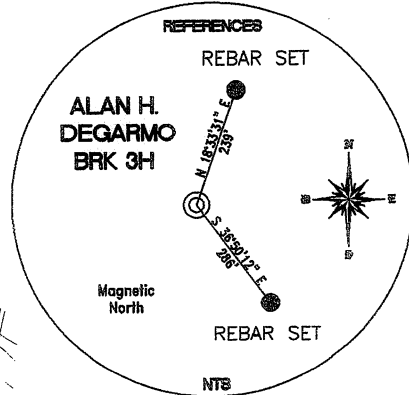
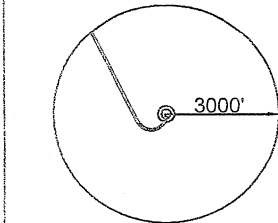
REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



SCALE 1"=100'

SURFACE HOLE

North



REFERENCE LINES

RL #1  
S 74°31'31" W 191'

REFERENCE NOTES

Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Brooke County, West Virginia MARCH 2011 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drafted by: E.A.M.

<p><b>TOP HOLE (NAD 83)</b> N) 637893.1 E) 1669259.9 LAT.) 40°14'47.0" LONG.) 80°34'19.1" DEC. LAT.) 40.246385 DEC. LONG.) 80.571982</p>	<p><b>TP (NAD 83)</b> N) 637842.1 E) 1669075.5 LAT.) 40°14'46.5" LONG.) 80°34'21.5" DEC. LAT.) 40.246238 DEC. LONG.) 80.572640</p>
<p><b>TOP HOLE (NAD 27)</b> N) 637856.0 E) 1700694.4 LAT.) 40°14'46.7" LONG.) 80°34'19.9" DEC. LAT.) 40.246314 DEC. LONG.) 80.572187</p>	<p><b>TP (NAD 27)</b> N) 637805.0 E) 1700509.9 LAT.) 40°14'46.2" LONG.) 80°34'22.2" DEC. LAT.) 40.246168 DEC. LONG.) 80.572845</p>
<p><b>KOP (NAD 83)</b> N) 637394.6 E) 1669298.6 LAT.) 40°14'42.1" LONG.) 80°34'18.6" DEC. LAT.) 40.245018 DEC. LONG.) 80.571822</p>	<p><b>BOTTOM HOLE (NAD 83)</b> N) 643191.3 E) 1666407.6 LAT.) 40°15'39.0" LONG.) 80°34'56.7" DEC. LAT.) 40.260833 DEC. LONG.) 80.582427</p>
<p><b>KOP (NAD 27)</b> N) 637357.5 E) 1700733.1 LAT.) 40°14'41.8" LONG.) 80°34'19.3" DEC. LAT.) 40.244947 DEC. LONG.) 80.572027</p>	<p><b>BOTTOM HOLE (NAD 27)</b> N) 643154.2 E) 1697842.1 LAT.) 40°15'38.7" LONG.) 80°34'57.5" DEC. LAT.) 40.260762 DEC. LONG.) 80.582632</p>

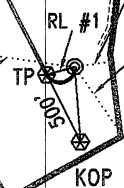
STARVAGGI INDUSTRIES  
151.713 TOTAL ACRES  
TAX MAP AND PARCEL  
B27-22  
LEASE NUMBER  
1-324527-000  
DEED BOOK/PAGE  
9/532

LANA LOU GILKEY  
41.14 TOTAL ACRES  
TAX MAP AND PARCEL  
B28-20  
LEASE NUMBER  
1-324541-000  
DEED BOOK/PAGE  
10/91

DONNA M. SULLIVAN  
110.55 TOTAL ACRES  
TAX MAP AND PARCEL  
B35-22

ALAN H. AND MARY  
KATHRYN DEGARMO,  
LIFE ESTATE PATRICK A.  
DEGARMO, REMAINDERMAN  
145 TOTAL ACRES  
TAX MAP AND PARCEL  
B35-20  
LEASE NUMBER  
1-312392-000  
DEED BOOK/PAGE  
12/456

ALAN H.  
DEGARMO  
BRK 3H



FILE #: CHE 086  
DRAWING #: 1774  
SCALE: 1"=1200'  
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.

Signed:   
L.L.S. #2124 : Ernest J. Benchek III



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

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

Well Type:  Oil  Waste Diposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,205'

COUNTY/DISTRICT: BROOKE/BUFFALO QUADRANGLE: BETHANY

SURFACE OWNER: ALAN H. AND MARY KATHRYN DEGARMO, LIFE ESTATE PATRICK A. DEGARMO, REMAINDERMAN ACREAGE: 145.00 +/-

OIL & GAS ROYALTY OWNER: ALAN H. AND MARY KATHRYN DEGARMO, LIFE ESTATE PATRICK A. DEGARMO, REMAINDERMAN ACREAGE: 337.85 +/-

LEASE NUMBERS:

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 5,887' TMD: 11,716'

WELL OPERATOR : CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT : ERIC B. GILLESPIE  
ADDRESS: PO BOX 18496 ADDRESS: Po Box 6070  
CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: AUGUST 9, 2011  
OPERATOR'S WELL #: ALAN H. DEGARMO BRK 3H  
API WELL #: 47 09 00115 H  
STATE COUNTY PERMIT



9-00115H

