

GAS RIGHT DEED 28 LEASE 14,650 ACRES± WELL NO. WV 513405

LATITUDE 38° 42' 30"

LONGITUDE 80° 05' 00"

WELL NO. WV 513405
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 609,006
E. 2,252,702

LAT=(N) 38.66916
LONG=(W) 80.11493

UTM, NAD83
N. 4,280,447
E. 577,013

LEASE # 190028

COASTAL FOREST
RESOURCES
12,070.039 ACRES±

WELL NO. WV 513405
LANDING POINT
S 79°11' E
1092.11'

N 53°28' E
5700.17'

S 72°51' E
4451.24'

BOTTOM HOLE
WELL NO. WV 513405
S 19°00' E
1900.50'

PENN VIRGINIA
OPERATING CO. LLC
| 9743.586 ACRES±

BOTTOM HOLE
WELL NO. WV 513405
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 604,670
E. 2,255,197

LAT=(N) 38.65719
LONG=(W) 80.10634

UTM, NAD83
N. 4,279,127
E. 577,774

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 5/17/10.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 241 PAGE 408.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RANDOLPH COUNTY IN JULY, 2009.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

THERE APPEAR TO BE NO KNOWN PERMITTED WELLS WITHIN 2,400'.

WELL NO. WV 513405

2,400'

KUMBRABOW STATE FOREST
9424.88 ACRES±

LANDING POINT
WELL NO. WV 513405
STATE PLANE COORDINATES
(SOUTH ZONE)

N. 608,801
E. 2,253,775

LAT=(N) 38.66857
LONG=(W) 80.11118

UTM, NAD83
N. 4,280,385
E. 577,340

REFERENCES

- ADO 98 WELLS
- H1-WV 513085
 - H2-WV 513086
 - H3-WV 513087
 - H4-WV 513088
 - H5-WV 513404
 - H6-WV 513405

18" SUGAR MAPLE

S 70°35' W
282.70'

S 22°03' W
230.51'

S 19°35' W
282.97'

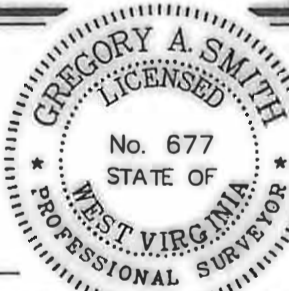
2" STRIPED MAPLE

1" = 200'

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 23, 20 10

OPERATORS WELL NO. WV 513405

API WELL NO. 47 - 083 - 01240H
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500
FILE NO. 6985P513405 (296-45)
PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)
SCALE 1" = 2000'

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



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

LOCATION: ELEVATION 3,395' WATERSHED CAMP 9 RUN OF BEECH RUN

DISTRICT MIDDLE FORK COUNTY RANDOLPH QUADRANGLE ADOLPH 7.5'

SURFACE OWNER COASTAL FOREST RESOURCES ACREAGE 12,070.04±

ROYALTY OWNER EQT PRODUCTION COMPANY LEASE ACREAGE 14,650±

PROPOSED WORK: LEASE NO. 190028

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD ___

FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___

PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION ESTIMATED DEPTH

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY

ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302 CHARLESTON, WV 25302

07/26/2013