

BOTTOM HOLE: LON:-80°38'29.0"

LON:-80°37'06.2"

9875

LAT: 39°37'30"

LON: 80°35'00"

6415

LAT:39°36'26.6" BOTTOM HOLE: LAT:39°37'32.9"

SURVEY NOTES

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owners & adjacent information obtained from Wetzel Co. Assessors Office. Lease names, & line mapping provided by HGE GIS system. Ends of unit lines mapped by MLS LLC & HGE.

3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete Title Opinion.

UTM Coordinates (Zone 17N-NAD 1983)

Surface N-4,384,262m. E-532,777m.

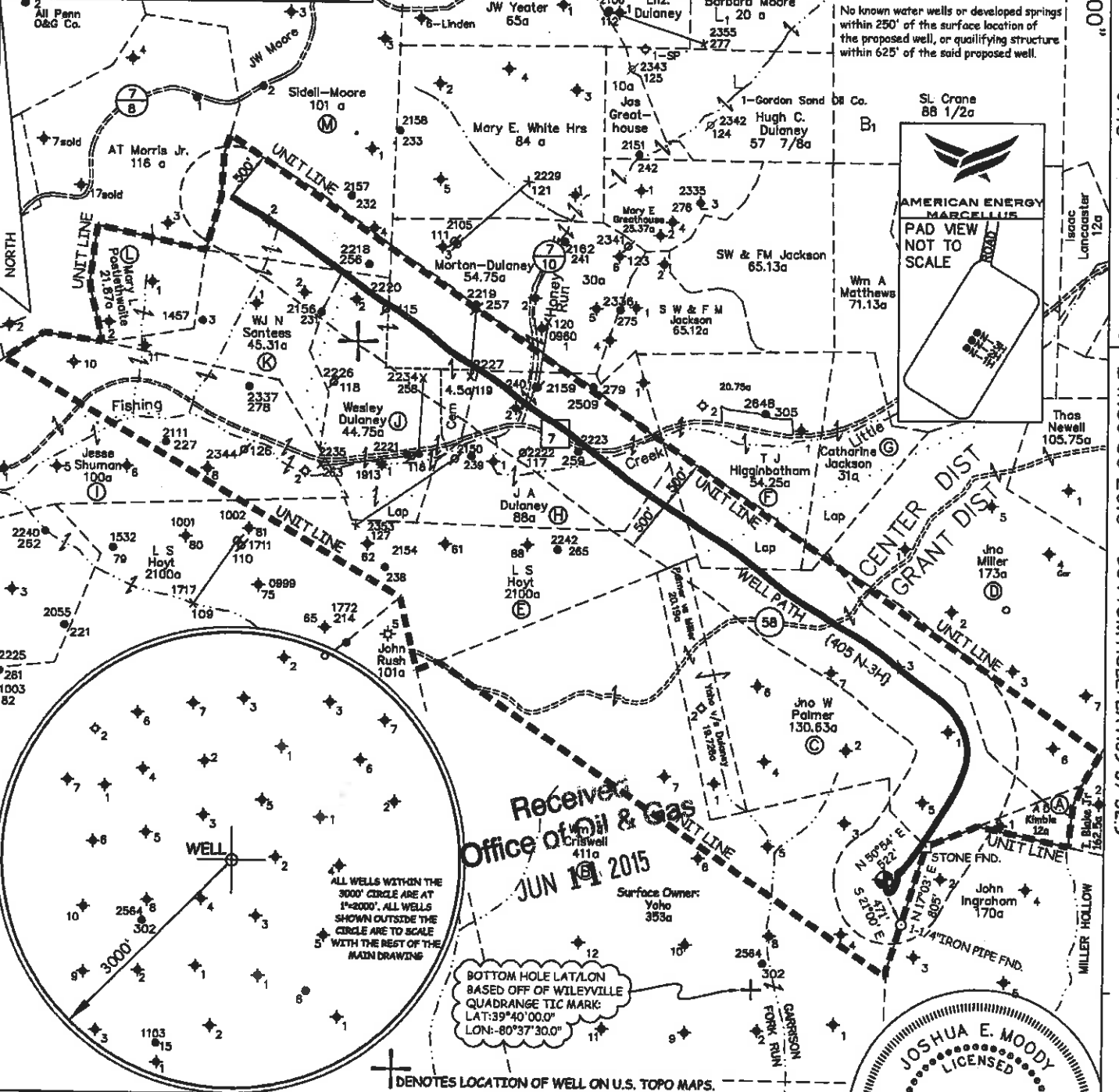
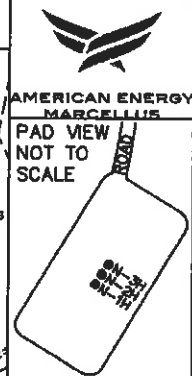
Bottom Hole N-4,386,296m. E-530,793m.

UTM 27 LOCATION REFERENCES

N 50°54' E 522' STONE FOUND

S 21°00' E 471' IRON PIPE FOUND

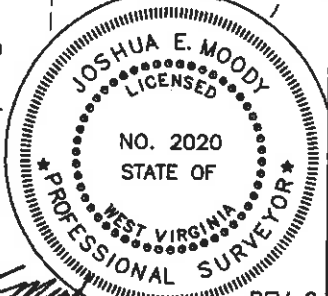
No known water wells or developed springs within 250' of the surface location of the proposed well, or qualifying structure within 625' of the said proposed well.



Received
Office of Oil & Gas
JUN 19 2015

BOTTOM HOLE LAT/LON
BASED OFF OF WILEYVILLE
QUADRANGLE TIC MARK:
LAT:39°40'00.0"
LON:-80°37'30.0"

⊕ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.



JOB # 13-001
DRAWING # 13HG405B 406B
SCALE 1" = 1500'
MINIMUM DEGREE OF ACCURACY 1/200'
PROVEN SOURCE OF ELEV. 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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

MOODY LAND SURVEYING, LLC
ST. MARYS, WV 26170

JOSHUA E. MOODY, P.S. 2020
DATE 10/27/14
OPERATOR'S WELL # 405 N-3H

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1393' WATERSHED NORTH FOR, FISHING CREEK API WELL #
DISTRICT GRANT COUNTY WETZEL 47 - 103 -
QUADRANGLE BIG RUN 7.5' STATE COUNTY PERMIT
SURFACE OWNER BERNARD LEE YOHO, JR. (surface hole) ACREAGE 353 ACRES +/-
OIL & GAS ROYALTY OWNER OXY USA, INC. ET AL. LEASE ACREAGE 490.45 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED LOCATION
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD= 7,532.86' MD= 17,397'
WELL OPERATOR AMERICAN ENERGY-MARCELLUS DESIGNATED AGENT BRANDON MCKINLEY
ADDRESS 3501 NW 63rd STREET ADDRESS 3501 NW 63rd STREET
OKLAHOMA CITY, OK 73116 OKLAHOMA CITY, OK 73116

COUNTY NAME PERMIT