

BOTTOM HOLE: LON: -80°38'43.0"

LON: -80°37'06.4"

9890

LAT: 39°37'30"

MAP OF H.G. ENERGY, LLC -CRISWELL 405 UNIT-

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 & adjoining 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)

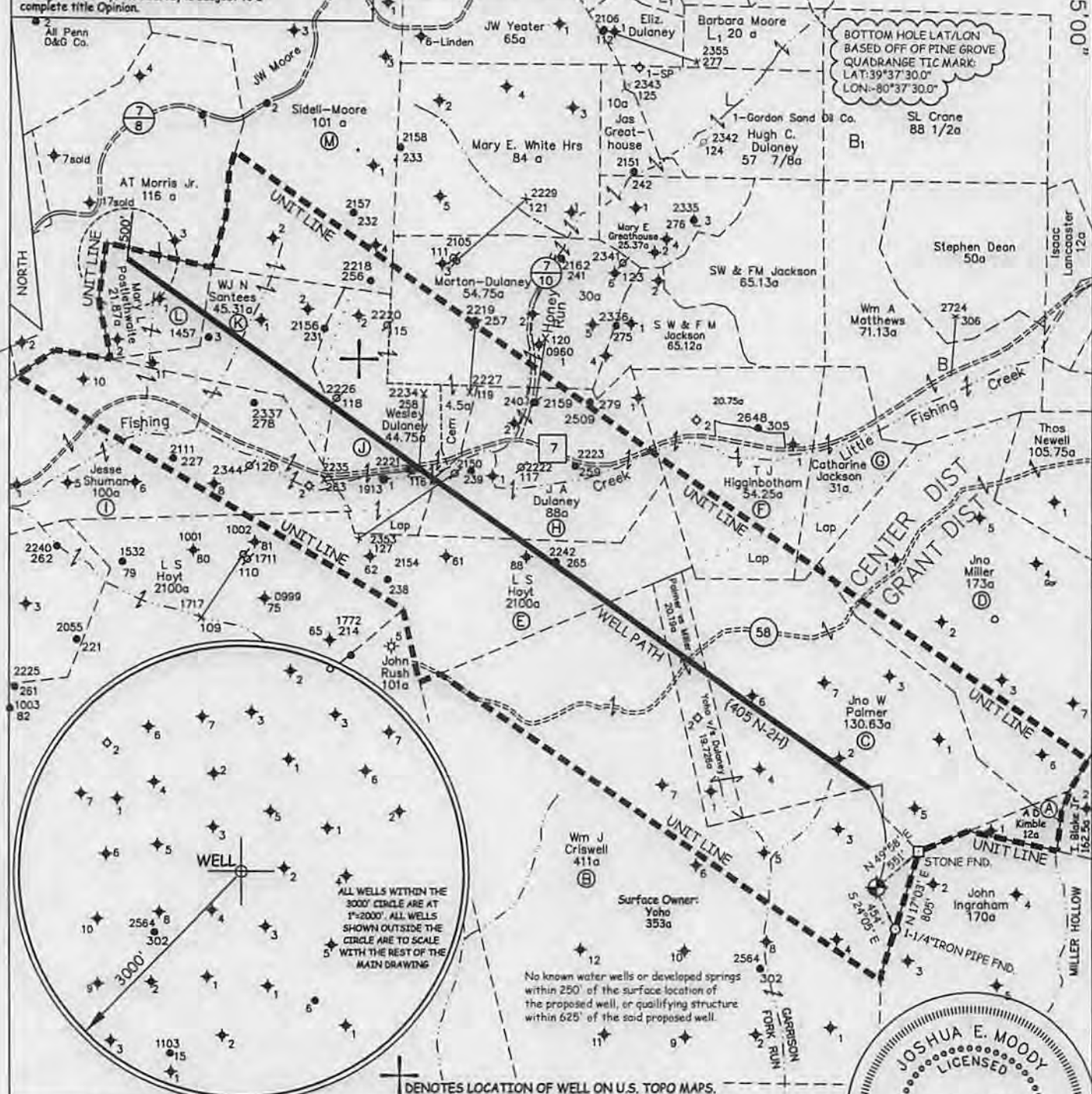
Surface N-4,384,254m.
E-532,772m.

Bottom Hole N-4,386,158m.
E-530,461m.

UTM 27 LOCATION REFERENCES

N 49°58' E 551' STONE FOUND
S 24°05' E 454' IRON PIPE FOUND

BOTTOM HOLE LAT/LON BASED OFF OF PINE GROVE QUADRANGLE TIC MARK:
LAT: 39°37'30.0"
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



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

REV 1
JOSHUA E. MOODY, P.S. 2020
DATE 9/27/13
OPERATOR'S WELL # 405 N-2H

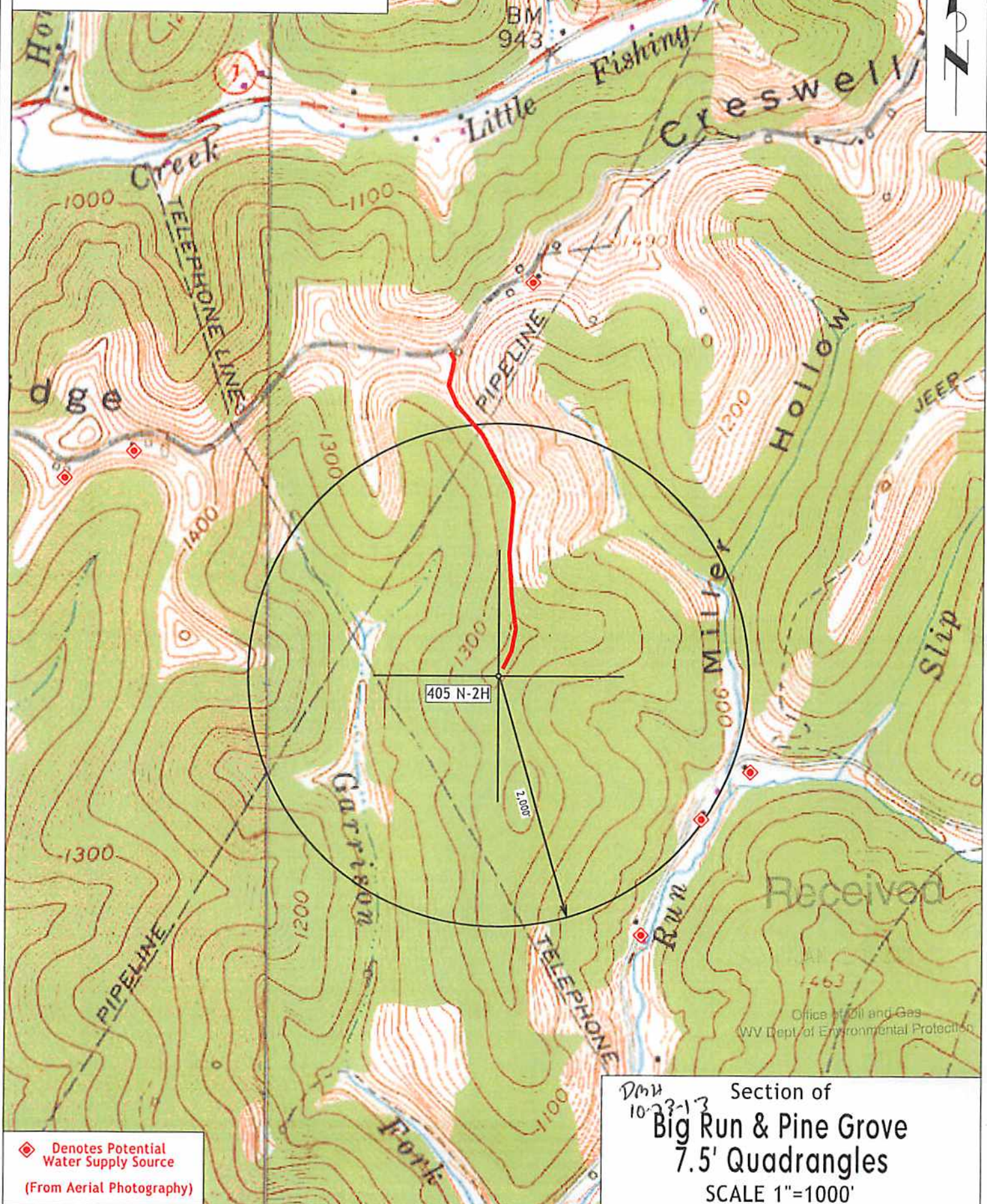
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1393' WATERSHED NORTH FOR, FISHING CREEK API WELL # 47-103-02977H6A
DISTRICT GRANT COUNTY WETZEL STATE COUNTY PERMIT
QUADRANGLE BIG RUN 7.5'

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) _____
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD= 7,222' MD= 17,186'
WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

FORM WW-6 LEASE # 107665-00

03/14/2014

SUBJECT WELL
W.J. Criswell 405 N-2H



◆ Denotes Potential Water Supply Source
(From Aerial Photography)

DMH 10-23-13 Section of
Big Run & Pine Grove
7.5' Quadrangles
SCALE 1"=1000'

Office of Oil and Gas
WV Dept. of Environmental Protection