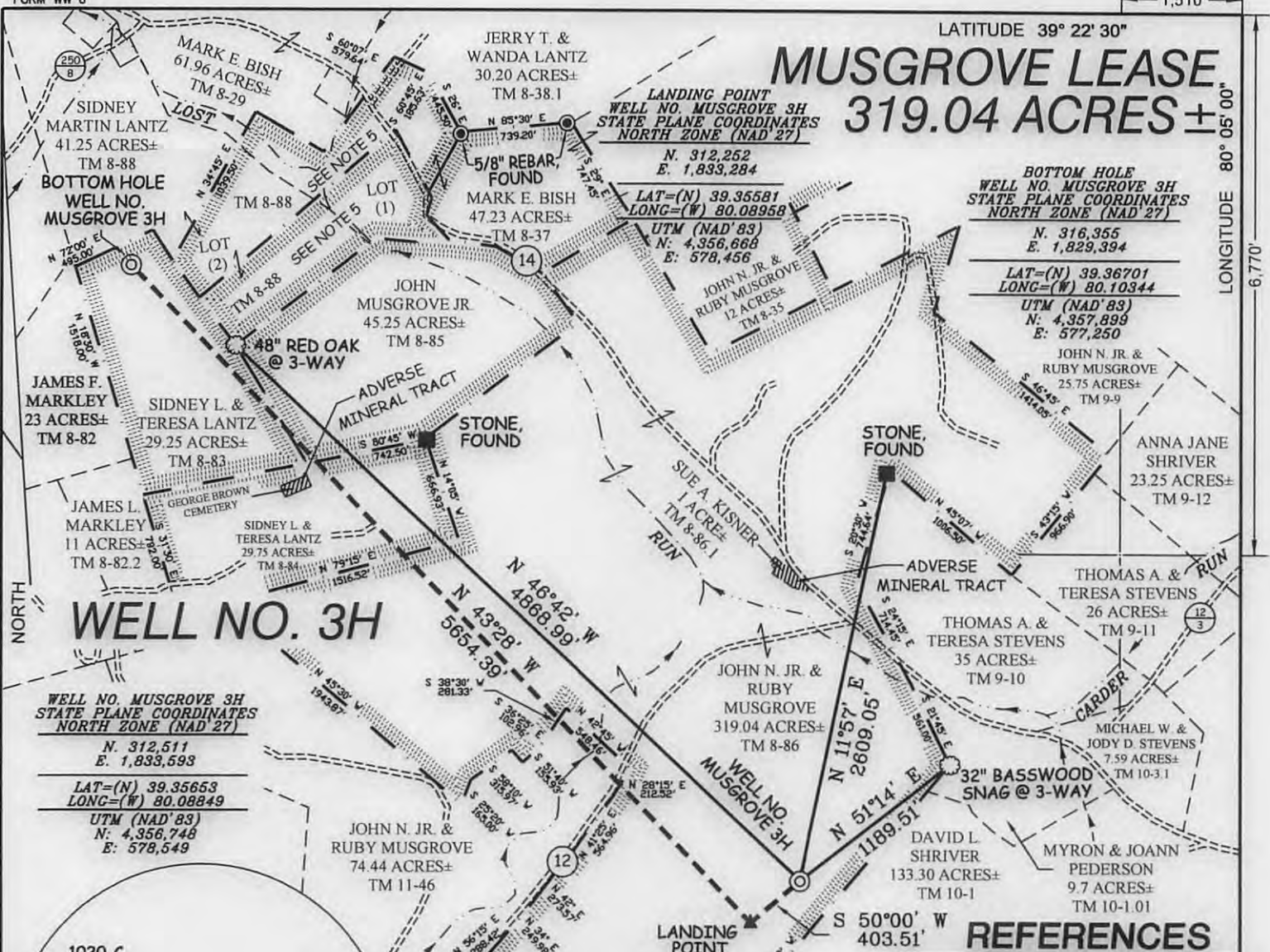


MUSGROVE LEASE 319.04 ACRES±



WELL NO. MUSGROVE 3H
STATE PLANE COORDINATES
NORTH ZONE (NAD'27)

N. 312,511
E. 1,833,593

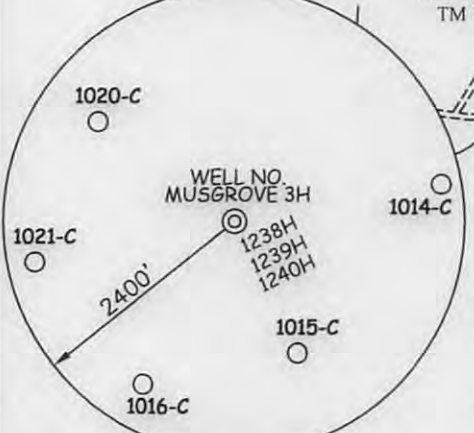
LAT=(N) 39.35653
LONG=(W) 80.08849

UTM (NAD'83)
N: 4,356,748
E: 578,549

REFERENCES

NOTES ON SURVEY

1. TIES TO WELLS, REFERENCES AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 220 PAGE 544, DEED BOOK 99 PAGE 314 AND DEED BOOK 63 PAGE 63.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TAYLOR COUNTY IN JULY, 2010.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SUBMETER MAPPING GRADE).
5. LOTS 1 & 2 ARE SHOWN HEREON TAKEN FROM A PARTITION PLAT DATED MARCH 23, 1921 RECORDED IN DEED BOOK 63 PAGE 63. SAID LOTS REMAINED AS MINERAL TRACTS, WHICH DIFFER FROM THE CURRENT SURFACE TRACTS.
6. THE GEORGE BROWN CEMETERY IS BASED ON INFORMATION PROVIDED TO SLS BY TRIANA ENERGY AND IS SET OUT IN DEED BOOK 29 ON PAGE 57.



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 MARCH 18, 20 13
OPERATORS WELL NO. MUSGROVE 3H
API WELL NO. 47 - 091 - 012384
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7535P3HR3 (327-6)
PROVEN SOURCE OF ELEVATION (SURVEY GRADE) SCALE 1" = 1000'

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



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

LOCATION: ELEVATION 1,415' WATERSHED LOST RUN
DISTRICT BOOTH'S CREEK COUNTY TAYLOR QUADRANGLE GRAFTON 7.5'

SURFACE OWNER JOHN N. MUSGROVE, JR. ET UX ACREAGE 319.04±

ROYALTY OWNER JOHN N. MUSGROVE, JR. ET UX - 319.04 AC.± & 45.25 AC.± & MARK BISH - 14.57 AC.± (LOT 1) & 14.57 AC.± (LOT 2)

PROPOSED WORK: LEASE NO. _____
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD 7,560' TMD 14,000'

WELL OPERATOR TRIANA ENERGY DESIGNATED AGENT RACHELLE A. KING
ADDRESS 900 VIRGINIA ST. EAST SUITE 400 ADDRESS 900 VIRGINIA ST. EAST SUITE 400
CHARLESTON, WV 25301 CHARLESTON, WV 25301 **06/21/2013**

COUNTY NAME PERMIT

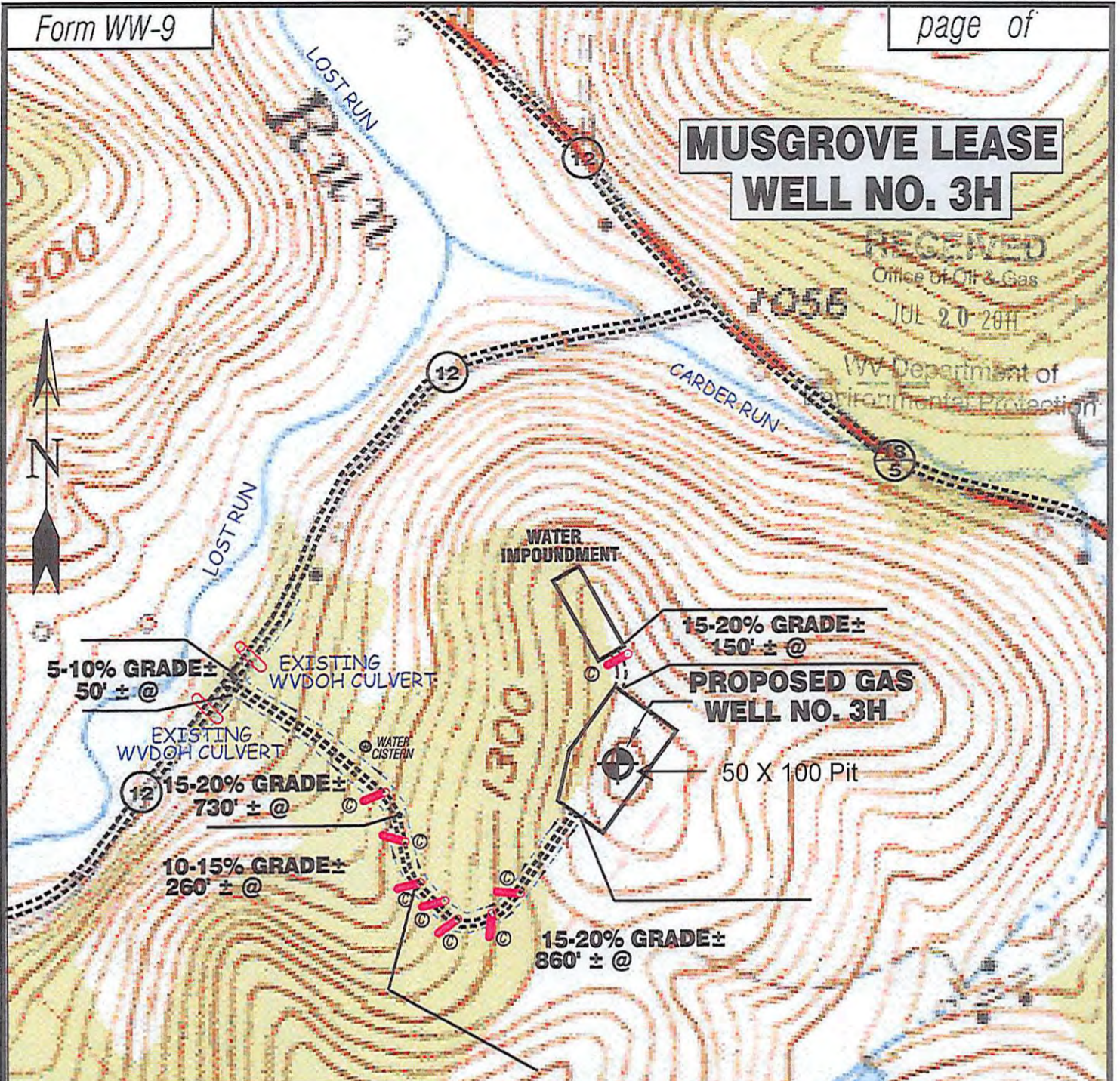
MUSGROVE LEASE WELL NO. 3H

RECEIVED
Office of Oil & Gas

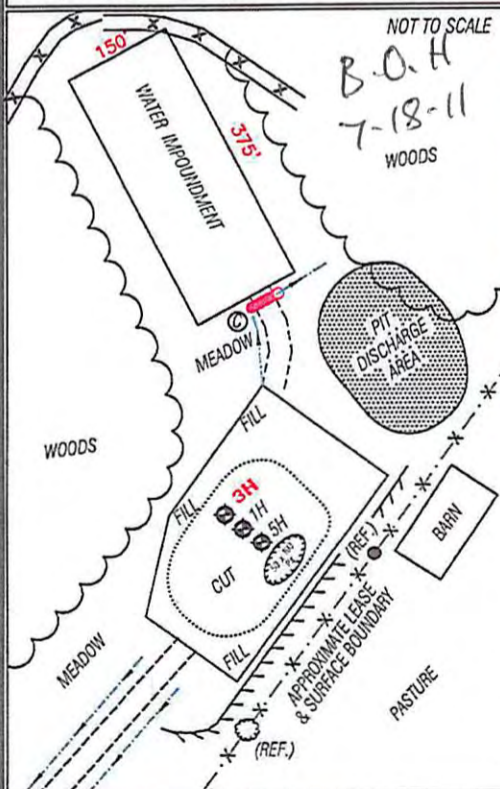
7056

JUL 20 2011

WV Department of
Environmental Protection



Detail Sketch for Proposed Well Musgrove 3H



SCALE: 1"=500'

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

TOPO SECTION OF USGS GRAFTON 7.5' QUADRANGLE

PROPOSED CULVERT INVENTORY (FOR BID PURPOSES ONLY)

12" (MINIMUM) CULVERT	8 CUL.
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ADDITIONAL CULVERTS AND/OR OTHER DRAINAGE STRUCTURES & SEDIMENT CONTROL DEVICES MAY BE REQUIRED BY THE WV D.E.P. OIL & GAS INSPECTOR. OPERATOR IS RESPONSIBLE FOR COORDINATION WITH CONTRACTOR AND SLS REGARDING ANY CHANGES OR ADDITIONS THE STATE MAY REQUIRE.

Projected Earthen Disturbance Area

Well & Pit Location Sites	13.0 ac. +/-
Access Road	2.4 ac. +/-
Approximate Total Disturbance	15.4 ac. +/-

— EXISTING CULVERT

⊙ = PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED



SMITH LAND SURVEYING, INC.
P.O. BOX 150 GLENVILLE, WV. 26351
PH: (304)462-5634 FAX: (304)462-5656 E-MAIL: sls@sissurveys.com

DRAWN BY: J.L.B. FILE NO.: 7535 DATE: 06/30/11 CADD FILE: 7535REC3-REV1.DWG