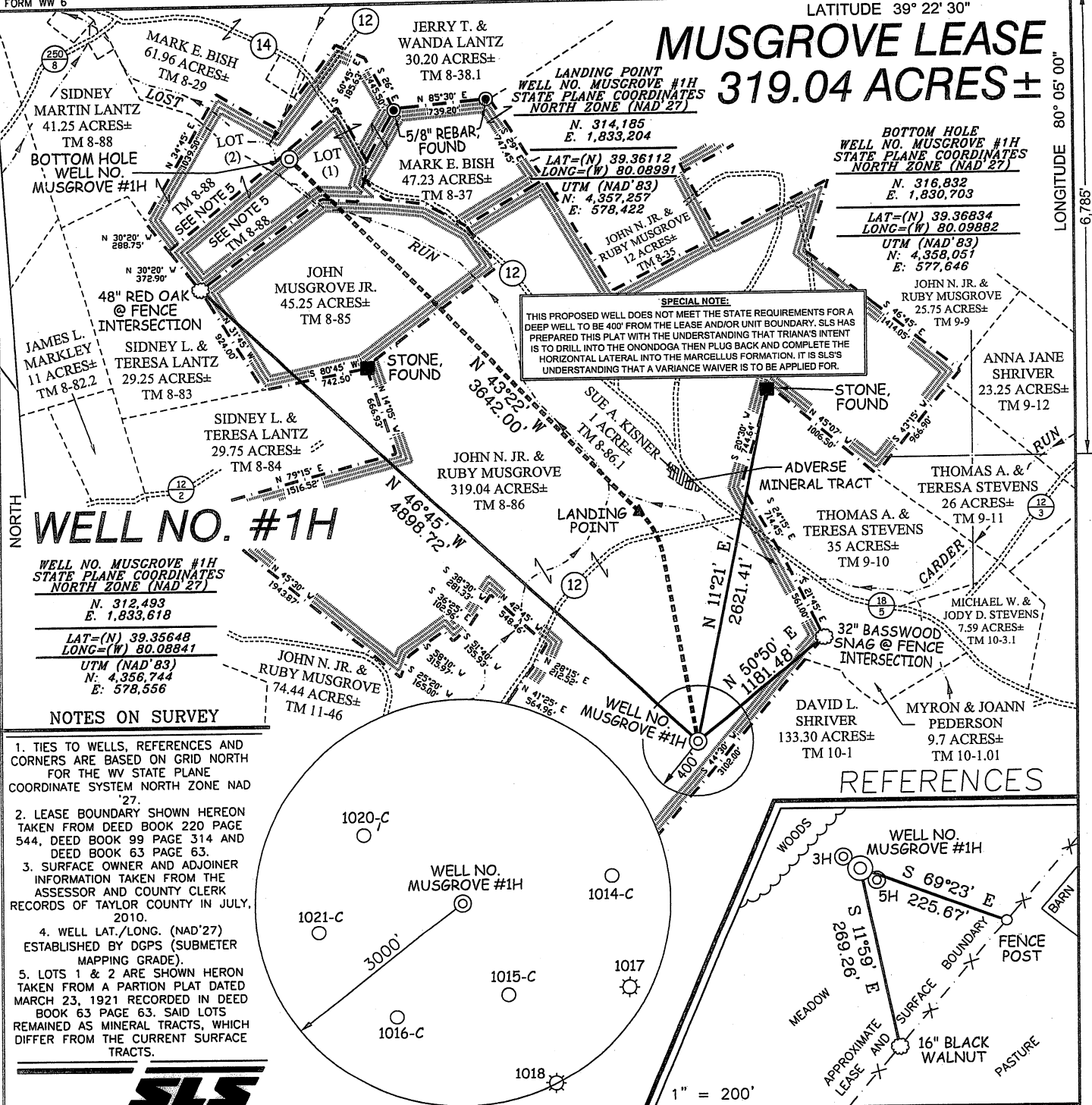


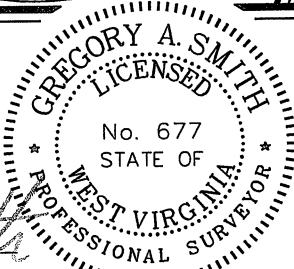
MUSGROVE LEASE 319.04 ACRES ±

LONGITUDE 80° 05' 00"



SPECIAL NOTE:
THIS PROPOSED WELL DOES NOT MEET THE STATE REQUIREMENTS FOR A DEEP WELL TO BE 400' FROM THE LEASE AND/OR UNIT BOUNDARY. SLS HAS PREPARED THIS PLAT WITH THE UNDERSTANDING THAT TRIANA'S INTENT IS TO DRILL INTO THE ONONDAGA THEN PLUG BACK AND COMPLETE THE HORIZONTAL LATERAL INTO THE MARCELLUS FORMATION. IT IS SLS'S UNDERSTANDING THAT A VARIANCE WAIVER IS TO BE APPLIED FOR.


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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE MAY 31, 20 11
OPERATORS WELL NO. MUSGROVE #1H
API WELL NO. 47 - 091 - 01239
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 7535P1HD R (327-6)
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 1000'

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



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

LOCATION: ELEVATION 1,417' 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)
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 ONONDAGA / MARCELLUS
ESTIMATED DEPTH 7,560' + HORIZONTAL

WELL OPERATOR TRIANA ENERGY, LLC 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

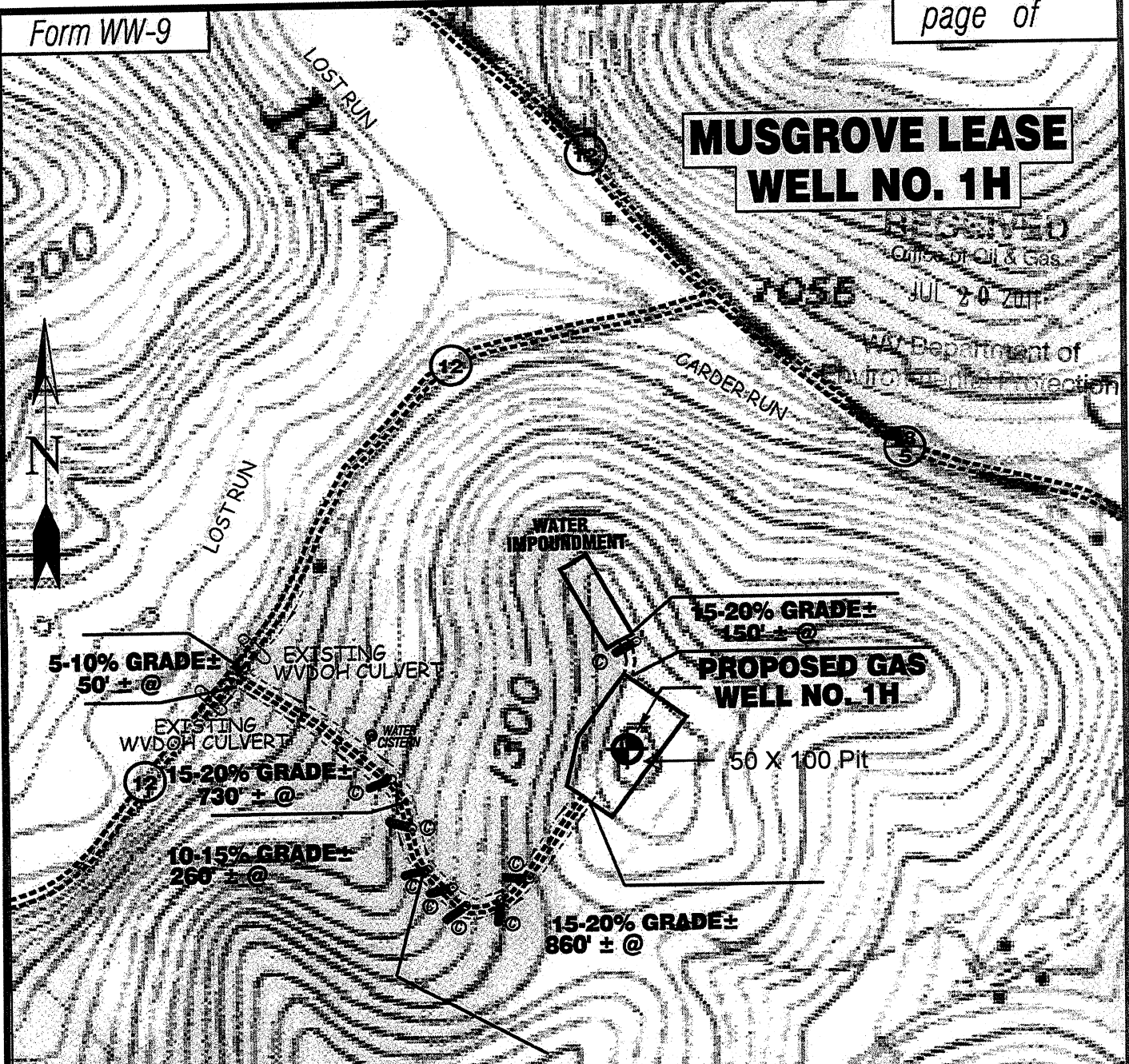
COUNTY NAME PERMIT

**MUSGROVE LEASE
WELL NO. 1H**

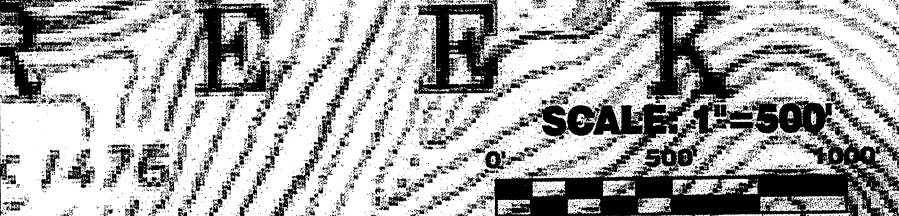
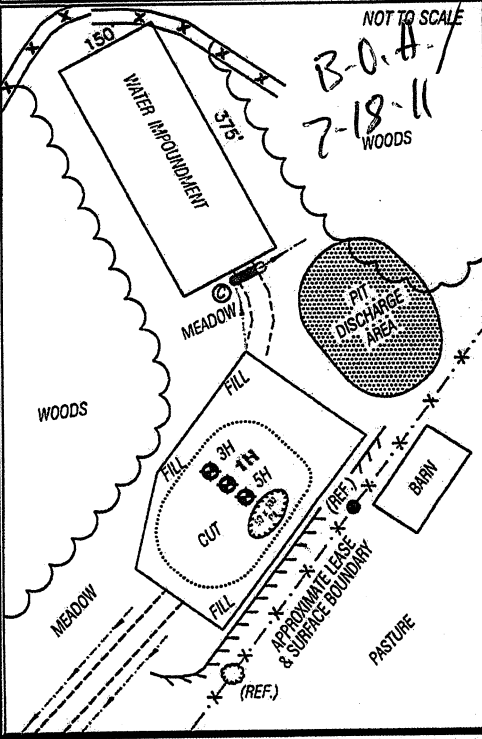
RECEIVED
Office of Oil & Gas

7056 JUL 20 2011

WV Department of
Environmental Protection



Detail Sketch for Proposed Well Musgrove 1H



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 GROSS 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@slsurveys.com

DRAWN BY J.L.B.	FILE NO. 7535	DATE 06/30/11	CADD FILE: 7535RECH1REV.DWG
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