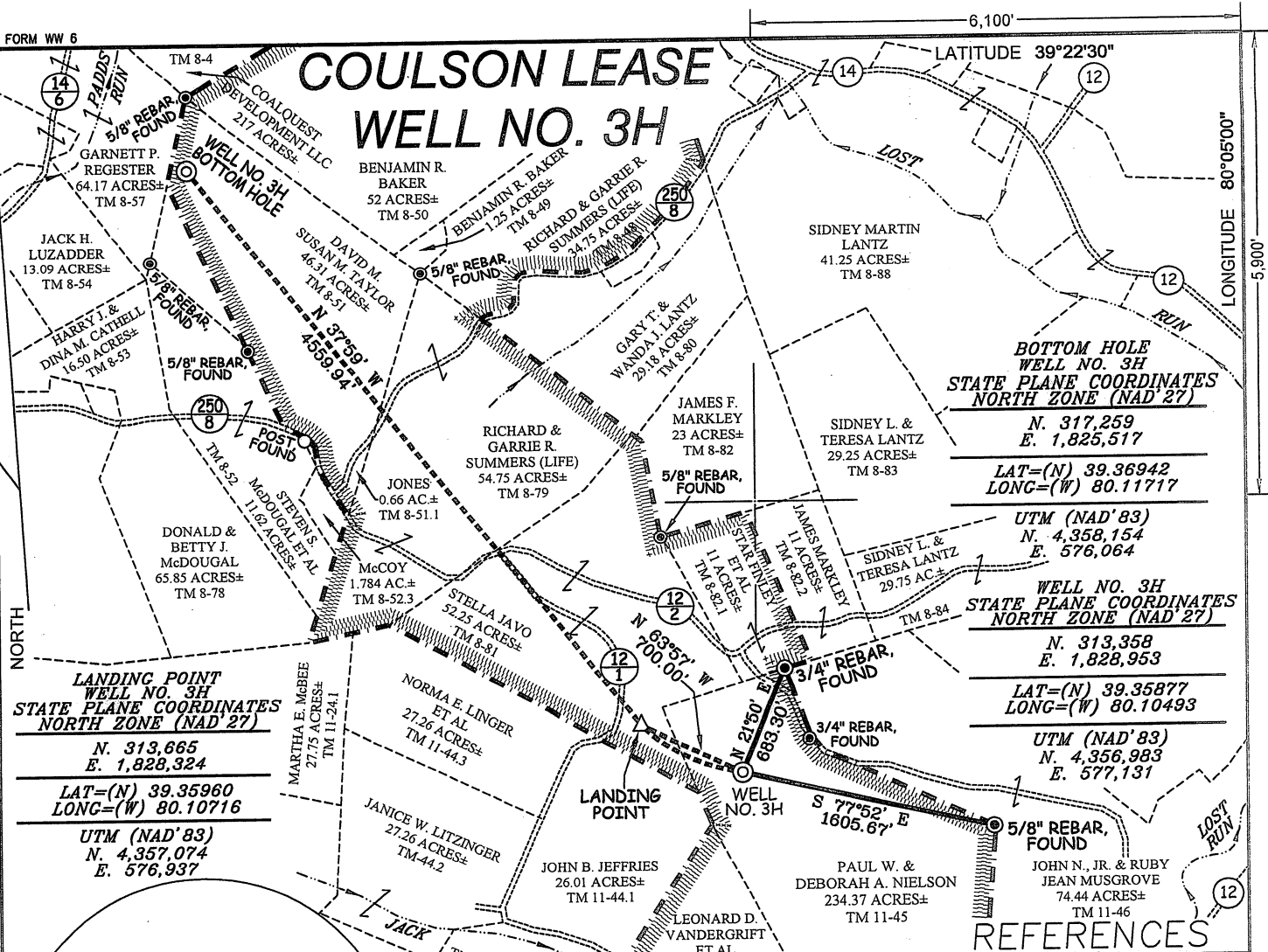


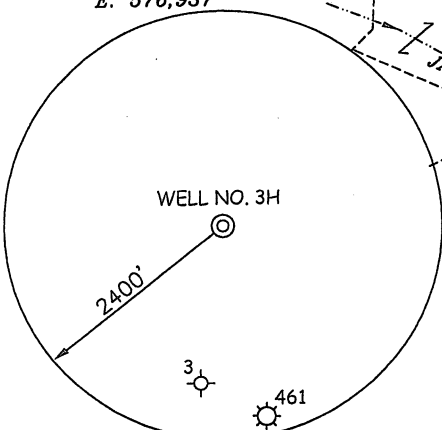
COULSON LEASE WELL NO. 3H



LANDING POINT WELL NO. 3H STATE PLANE COORDINATES NORTH ZONE (NAD 27)
 N. 313,665
 E. 1,828,324
 LAT=(N) 39.35960
 LONG=(W) 80.10716
 UTM (NAD'83)
 N. 4,357,074
 E. 576,937

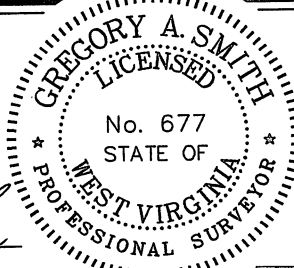
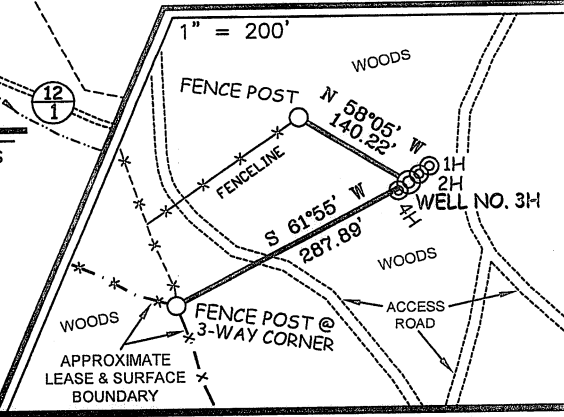
BOTTOM HOLE WELL NO. 3H STATE PLANE COORDINATES NORTH ZONE (NAD 27)
 N. 317,259
 E. 1,825,517
 LAT=(N) 39.36942
 LONG=(W) 80.11717
 UTM (NAD'83)
 N. 4,358,154
 E. 576,064

WELL NO. 3H STATE PLANE COORDINATES NORTH ZONE (NAD 27)
 N. 313,358
 E. 1,828,953
 LAT=(N) 39.35877
 LONG=(W) 80.10493
 UTM (NAD'83)
 N. 4,356,983
 E. 577,131



NOTES ON SURVEY

1. TIES TO WELLS, CORNERS, & REFERENCES 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 255 PAGE 442, DEED BOOK 103 PAGE 477 & DEED BOOK 302 PAGE 551.
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 (SURVEY GRADE).



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 2, 20 11
 OPERATORS WELL NO. COULSON #3H
 API WELL NO. 47 - 091 - 01255 H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7645P3HR3 (360-36)
 PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 1,000'

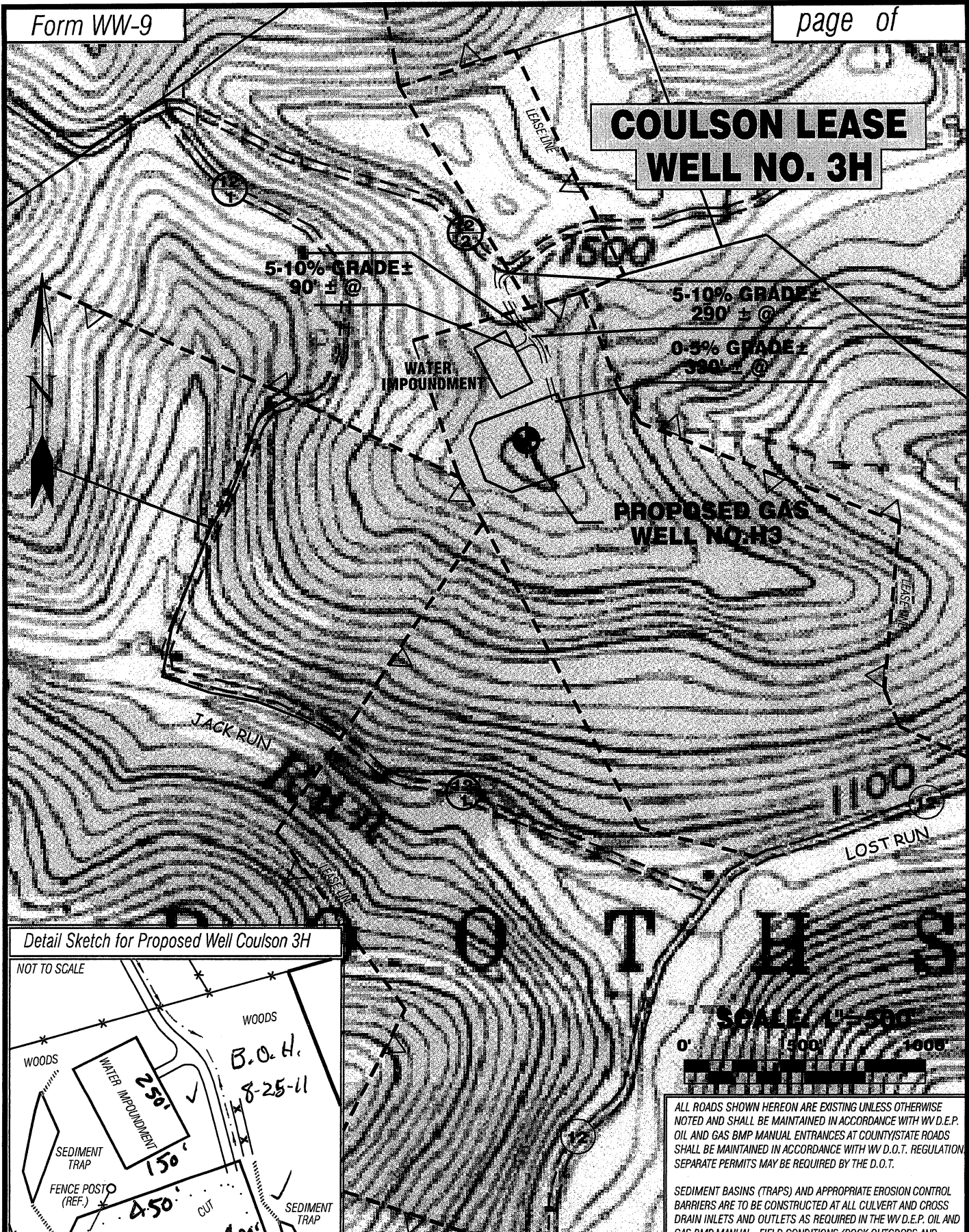
STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

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

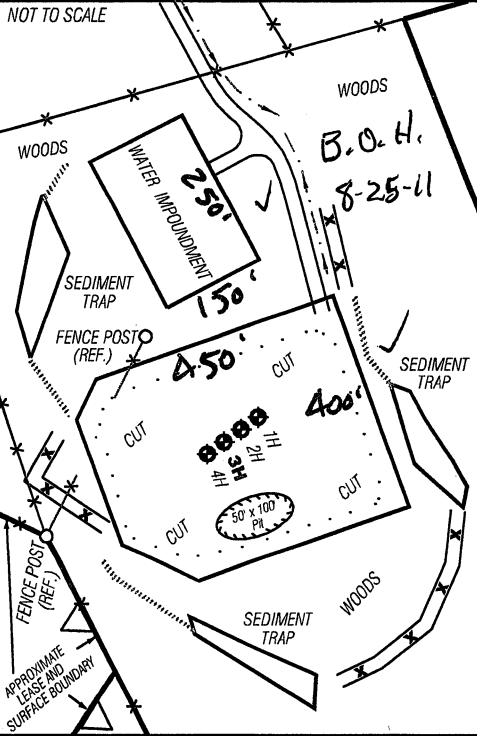
LOCATION:
 ELEVATION 1,505' (GROUND) 1,498' (PROPOSED) WATERSHED JACK RUN AND LOST RUN
 DISTRICT BOOTH'S CREEK COUNTY TAYLOR QUADRANGLE GRAFTON 7.5'
 SURFACE OWNER PAUL W. & DEBORAH A. NIELSON ACREAGE 234.37±
 ROYALTY OWNER ANN COULSON LEASE ACREAGE 234.37±
 PROPOSED WORK:
 DRILL CONVERT DRILL DEEPER 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 TD = 7,700' TMD = 12,270'

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

**COULSON LEASE
WELL NO. 3H**



Detail Sketch for Proposed Well Coulson 3H



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)**

15" (MINIMUM) CULVERT	1 CUL.
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	10.76 ac. +/-
Access Road	1.21 ac. +/-
Approximate Total Disturbance	11.97 ac. +/-

= EXISTING CULVERT

= PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED



SMITH LAND SURVEYING, INC.
P.O. BOX 150 GLENVILLE, WV. 26351
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DRAWN BY: K.E.S. FILE NO.: 7645 DATE: 08/03/11 CADD FILE: 7645 Res H3R.dwg