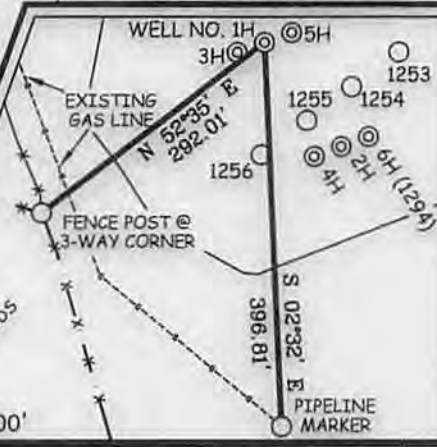


**COULSON LEASE
WELL NO. 1H**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 313,398 E. 1,828,931
 NAD'27 GEO. LAT-(N) 39.358881 LONG-(W) 80.105005
 NAD'83 UTM (M) N. 4,356,995 E. 577,124
BOTTOM HOLE
 NAD'27 S.P.C.(FT) N. 317,791 E. 1,825,841
 NAD'27 GEO. LAT-(N) 39.370885 LONG-(W) 80.116038
 NAD'83 UTM (M) N. 4,358,318 E. 576,160

REFERENCES



NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.



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 APRIL 30, 20 14
 REVISED MAY 13, 20 14
 OPERATORS WELL NO. COULSON 1H
 API WELL NO. 47 - 91 - HGA 01300
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7645P1HR9
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) 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 1,495' 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±

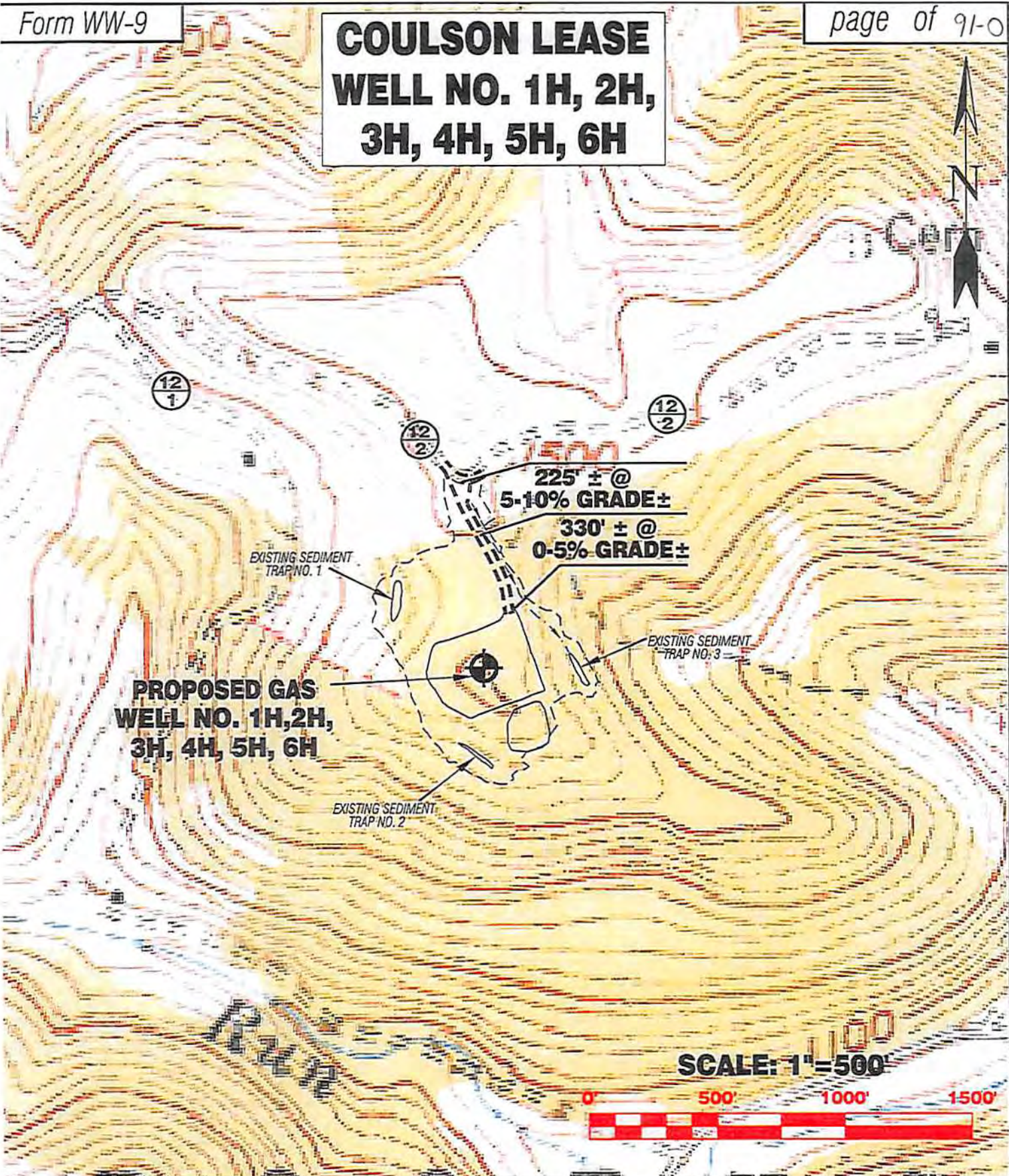
ROYALTY OWNER ANN V. COULSON TRUST(234.37 AC±) / EDWARD RUCKAVINA (52.25 AC±) / JILL ANNETTE STURM MATTHEWS ETAL (54.75 AC±) / SUSAN AND DAVID TAYLOR (46.97 AC±) / BENJAMIN BAKER (52 AC±) LEASE NO. _____

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 TVD = 7,700' TMD = _____

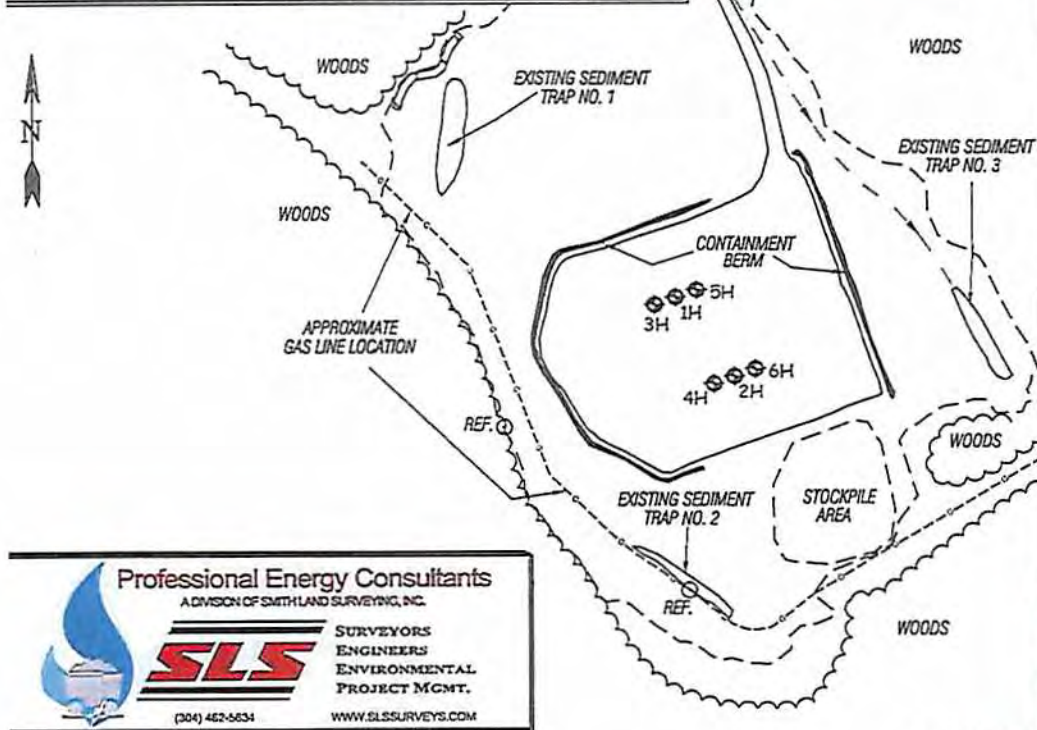
WELL OPERATOR TRIANA ENERGY, LLC. DESIGNATED AGENT RACHELLE A. KING
 ADDRESS 900 VIRGINIA ST. EAST SUITE 400 ADDRESS 900 VIRGINIA ST. EAST SUITE 400
 CHARLESTON, WV 25301 CHARLESTON, WV 25301 **07/25/2014**

COUNTY NAME
PERMIT

COULSON LEASE WELL NO. 1H, 2H, 3H, 4H, 5H, 6H



Detail Sketch for Proposed Well No. 1H, 2H, 3H, 4H, 5H, 6H



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)

WV Department of Environmental Protection

Ⓞ = EXISTING CULVERT
Ⓞ = PROPOSED CULVERT
15'-MIN UNLESS OTHERWISE NOTED

⊗ = PROPOSED STREAM CROSSING
⊗ = PROPOSED LIMITS OF DISTURBANCE

Professional Energy Consultants
A DIVISION OF SMITHLAND SURVEYING, INC.

SLS
SURVEYORS
ENGINEERS
ENVIRONMENTAL
PROJECT MGMT.

(304) 462-6634
WWW.SLSURVEYS.COM

DRAWN BY: K.D.W. FILE NO.: 7645 DATE: 01/10/14 CADD FILE: 7645REC44R.DWG

NOT TO SCALE

07/25/2014