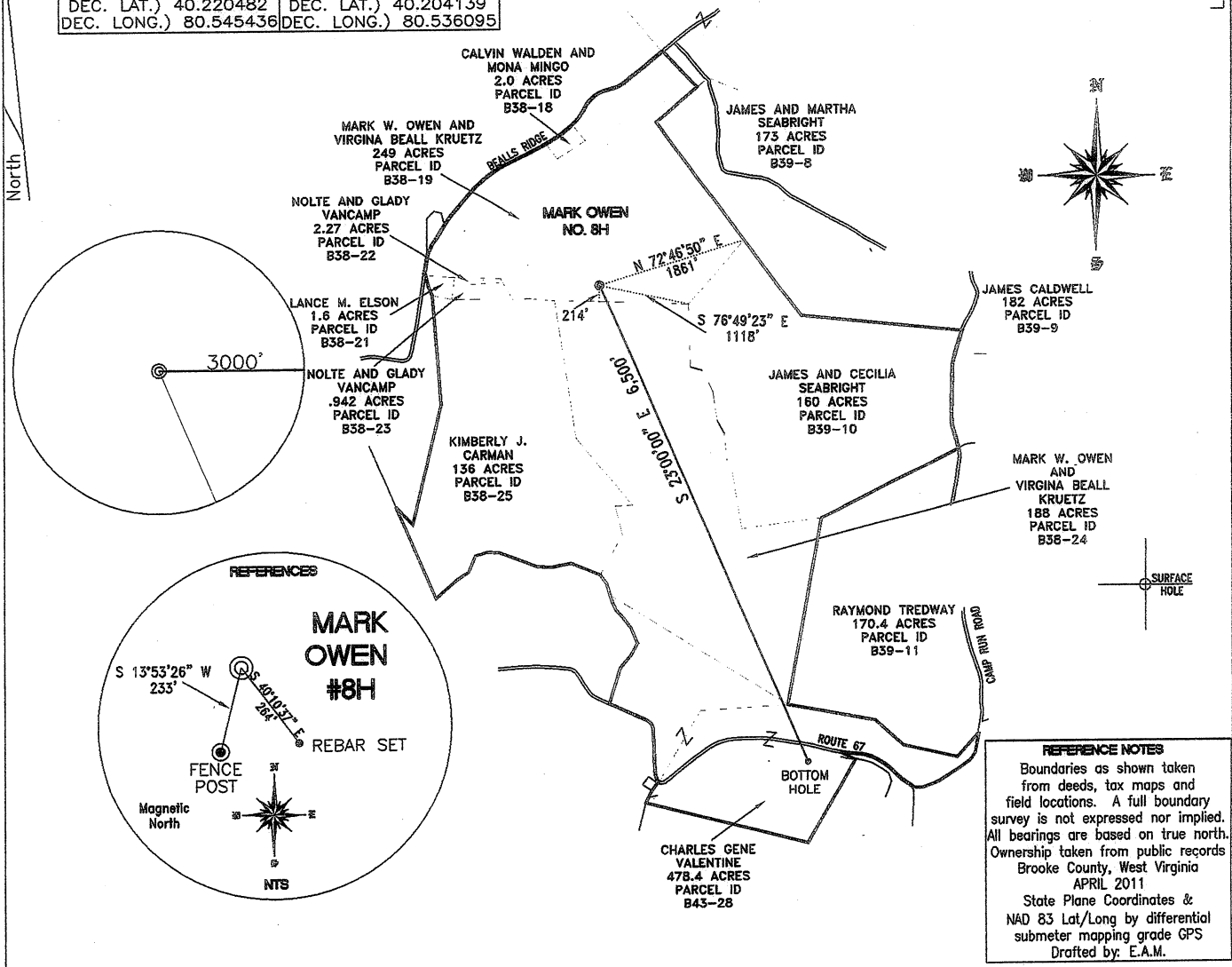


SURFACE HOLE DEC. LONG: 80.545436
 SURVEYED LONG: 80° 32' 43.6"
 Latitude: 40° 15' 00"

Longitude: 80° 32' 30"

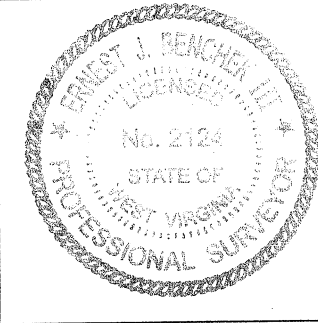
TOP HOLE (NAD 27) N) 628333.0 E) 1707994.1 LAT.) 40°13'13.5" LONG.) 80°32'44.3" DEC. LAT.) 40.220411 DEC. LONG.) 80.545436	BOTTOM HOLE (NAD 27) N) 622349.7 E) 1710533.8 LAT.) 40°12'14.6" LONG.) 80°32'10.7" DEC. LAT.) 40.204068 DEC. LONG.) 80.536302
TOP HOLE (NAD 83) N) 628370.1 E) 1676559.8 LAT.) 40°13'13.7" LONG.) 80°32'43.6" DEC. LAT.) 40.220482 DEC. LONG.) 80.545436	BOTTOM HOLE (NAD 83) N) 622386.8 E) 1679099.6 LAT.) 40°12'14.9" LONG.) 80°32'09.9" DEC. LAT.) 40.204139 DEC. LONG.) 80.536095



REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Brooke County, West Virginia APRIL 2011
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: E.A.M.

FILE #: CHE 030
 DRAWING #: 1519
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: 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 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed:
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,173'
 COUNTY/DISTRICT: BROOKE / BUFFALO QUADRANGLE: BETHANY, WV.
 SURFACE OWNER: MARK W. OWEN AND VIRGINA BEALL KRUEZ ACREAGE: 249 +/-
 OIL & GAS ROYALTY OWNER: MARK W. OWEN AND VIRGINA BEALL KRUEZ ACREAGE: 1075.00 +/-
 LEASE NUMBERS: _____

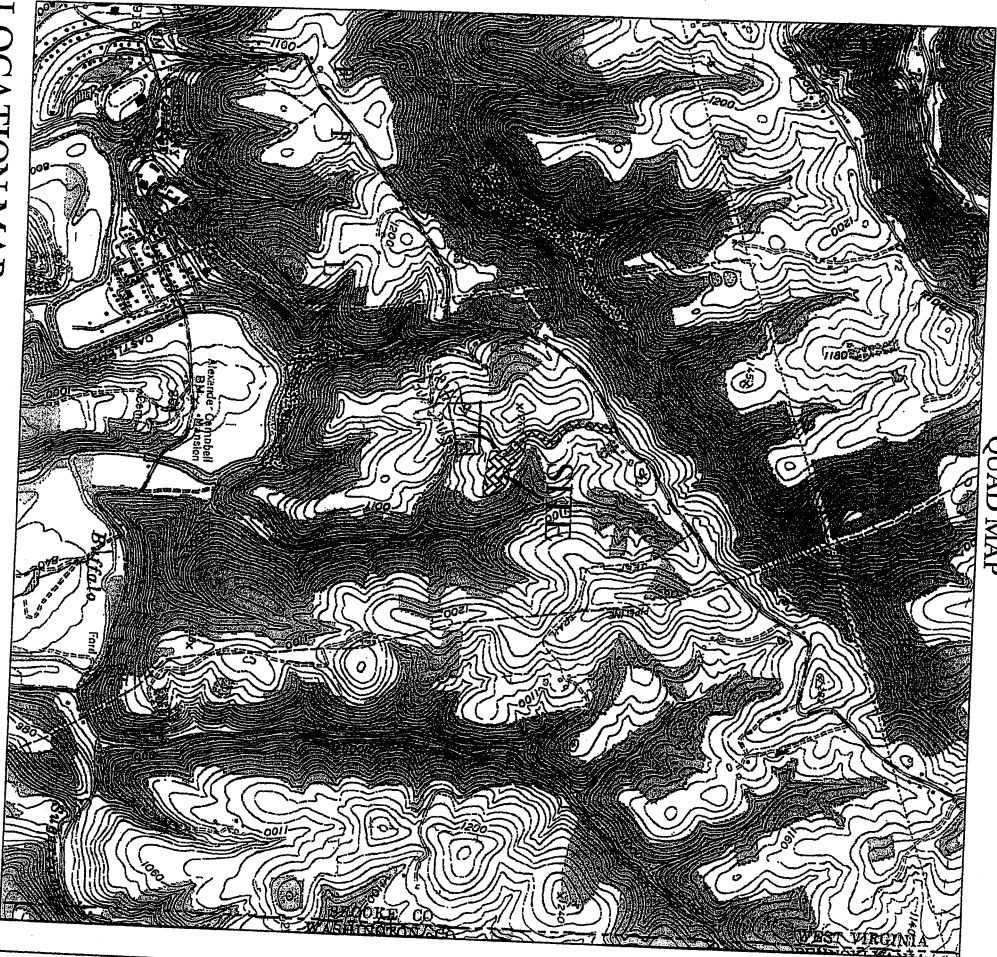
DATE: APRIL 08, 2011
 OPERATOR'S WELL #: MARK OWEN NO. 8H
 API WELL #: 47 09 0008711
 STATE COUNTY PERMIT

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6096' TMD: 12596'
 WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC GILLESPIE
 ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070
 CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

01/20/2012

BETHANY, WV
QUAD MAP



LOCATION MAP
SCALE: 1"=2000'

MARK OWEN
PAD "A"
NAD 83:
LAT. 40° 13' 13.7"
LON. 80° 32' 43.6"

**CONSTRUCTION SEQUENCE FOR
MARK OWEN PAD "A".**

- 1) Install rock construction entrance at beginning of proposed access road to station 0+50.
- 2) Install 30" R.F.F. #1 through #10.
- 3) Install diversion channel #1.
- 4) Remove topsoil from proposed access road and place in topsoil stockpile area #1 through #3.
- 5) Construct proposed access road to well pad.
- 6) Install roadside channel #1 along with pipe crossing #1 through #6 with outlet protection as directed.
- 7) Install 24" compost filter sock #1 through #4.
- 8) Construct tank pad and access road.
- 9) Install permanent channel #1 along with pipe crossing #7.
- 10) Place geo-textile material on access road sub-grade.
- 11) Place clean stone on access road sub-grade (no fines).
- 12) Seed and mulch all disturbed areas along access road and tank pad.
- 13) Install diversion channel #2.
- 14) Remove topsoil from the well pad and place in topsoil stockpile area #4.
- 15) Construct well pad along with G.P.U. pad and access road.
- 16) Seed and mulch all slopes along well pad and G.P.U. pad.
- 17) Drill wells.
- 18) Reclaim site as per reclamation plan.
- 19) Seed and mulch entire site.
- 20) Keep all erosion and sedimentation controls in place until there is 70% growth over the entire site.

INDEX:

- SHEET #1) LOCATION MAP & CONSTRUCTION SEQUENCE
- SHEET #2) E&S CONTROL & ACCESS ROAD PLAN
- SHEET #3) E&S CONTROL & SITE PLAN
- SHEET #4) ACCESS ROAD REC. PLAN
- SHEET #5) SITE RECLAMATION PLAN
- SHEET #6) PAD CROSS SECTIONS
- SHEET #7) DETAIL SHEET
- SHEET #8) DETAIL SHEET
- SHEET #9) DETAIL SHEET
- SHEET #10) DETAIL SHEET

BOARD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-825-0421

LOCATION MAP & INDEX

THIS DOCUMENT WAS PREPARED BY:
BOARD, BENCHEK AND ASSOC., INC.
FOR: CHESAPEAKE APPALACHIA, LLC.

SHEET #1

DATE: 11/2010
MARK OWEN
PAD "A"
BUFFALO
DISTRICT
BRIDGE CO. WV

9-00089