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west virginia department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

## PERMIT MODIFICATION APPROVAL

January 15, 2015

NORTHEAST NATURAL ENERGY LLC  
707 VIRGINIA STREET EAST, SUITE 1200  
CHARLESTON, WV 25301

Re: Permit Modification Approval for API Number 6101688 , Well #: COASTAL 13H  
**Adjusted Horizontal**

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith  
Assistant Chief of Permitting  
Office of Oil and Gas

4709101688 MOD



northeast  
NATURAL ENERGY

January 14, 2015

WV Department of Environmental Protection  
Office of Oil and Gas  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Re: Coastal 13H Modification Request  
API # 47-6101688

Dear Permit Reviewer,

Northeast Natural Energy LLC ("NNE") would like to request a modification to its existing Coastal 13H permit identified by the API no. 47-06101688. NNE has adjusted the horizontal well bore to allow for more efficient development of the natural gas surrounding its Coastal Well Pad. Enclosed with this request is an updated Mylar Plat, Well Bore Schematic and WW-6A1 form and attachment.

Should you have any questions please contact me at 304.241.5752 Ext. 7108 or by email at [hmedley@nne-llc.com](mailto:hmedley@nne-llc.com).

Sincerely,

  
Hollie M. Medley  
Regulatory Coordinator

RECEIVED  
Office of Oil and Gas

JAN 15 2015

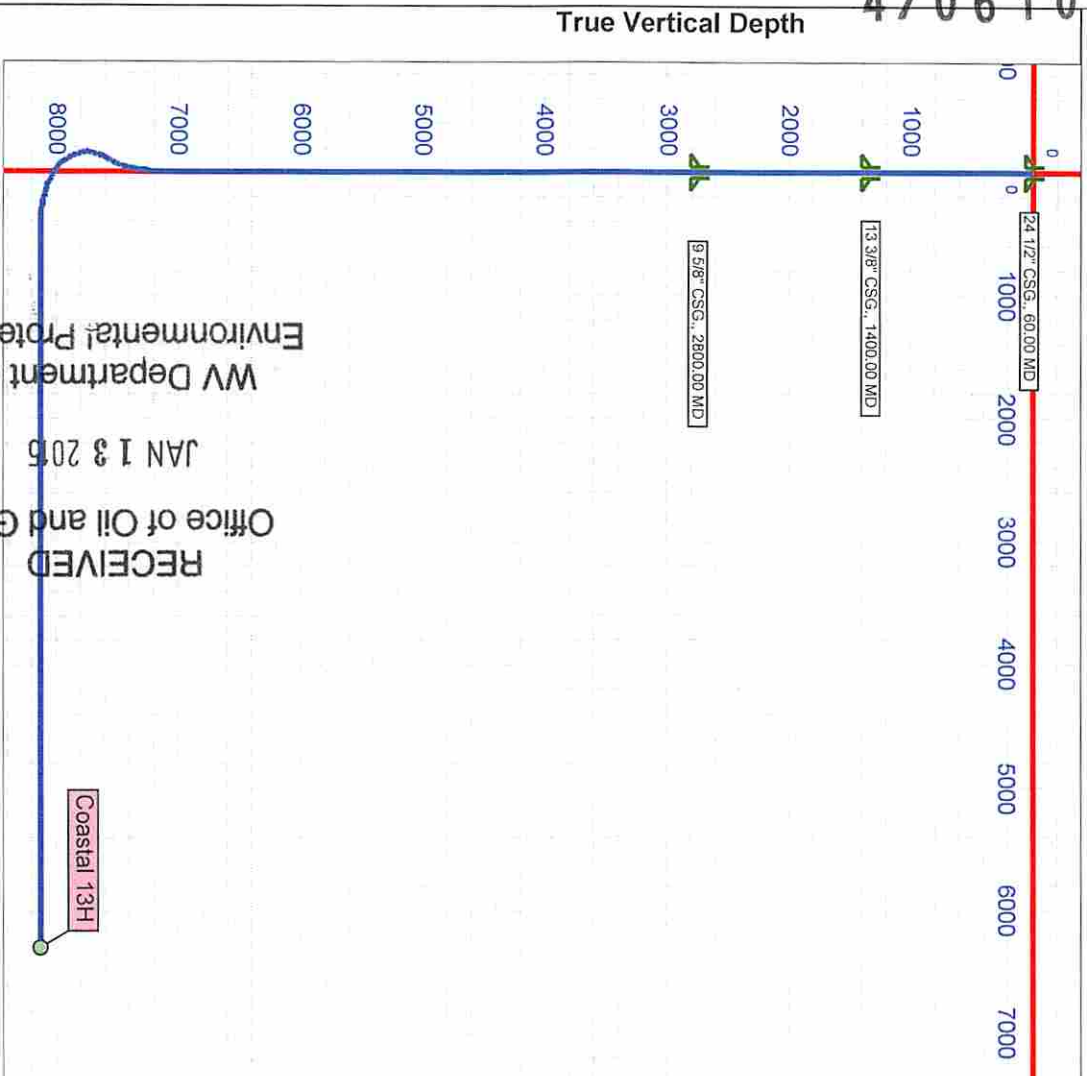
WV Department of  
Environmental Protection

4706101688 MOD



Job Number:  
 Company: Northeast Natural Energy  
 Lease/Well: Coastal 13H  
 Location: Coastal  
 Rig Name: Pioneer 63  
 State/Country: WV/Mon  
 Country: US  
 API Number:

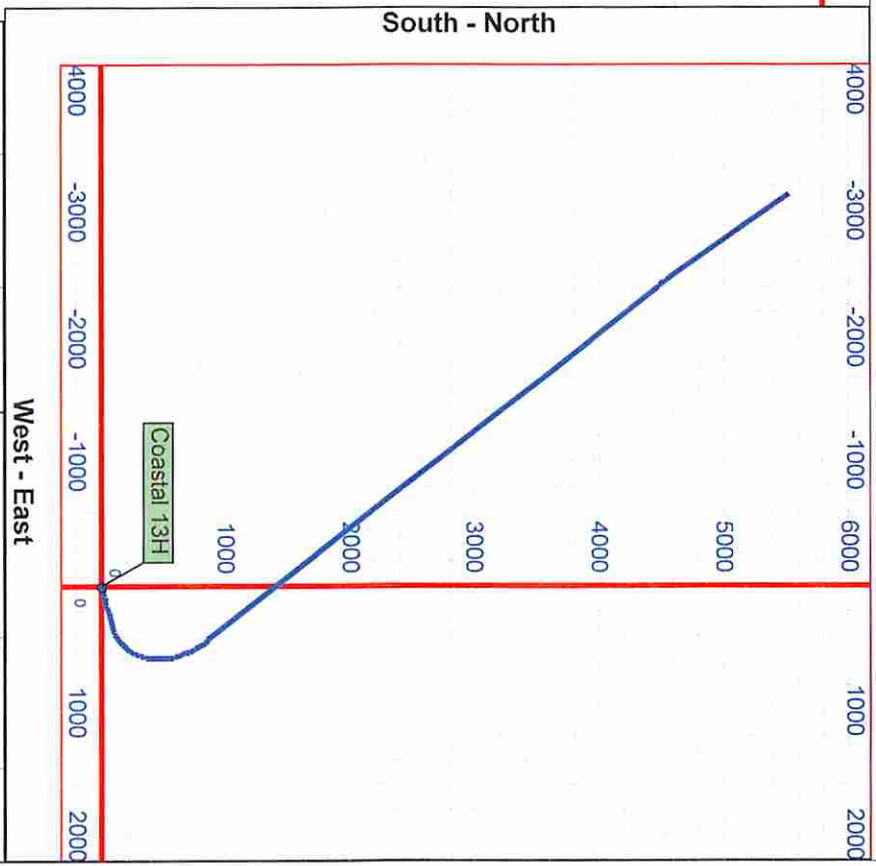
Elevation (To MSL): 1420.00 ft  
 RKB: 18.00 ft  
 Projection System: US State Plane 1983  
 Projection Group: West Virginia Northern Zone  
 Projection Datum: GRS80  
 Magnetic Declination: -8.89  
 Grid Convergence: -0.44928 W  
 Date: Monday, January 12, 2015



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 WV Department of  
 Environmental Protection  
 JAN 13 2015

Vertical Section (1000 FT/Div) VSP: 322.00°

Performance Drilling Technology, Inc. - HawkEye™ ©2014



MD	TVD	Tully
KOP 7,100	7,100	7,864
LP 8,612	8,129	7,914
Inflection 13,428	8,129	8,034
TD 14,723	8,129	8,084
		8,139

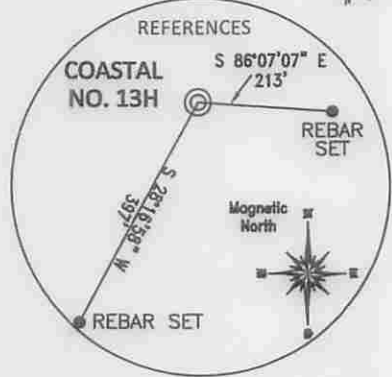
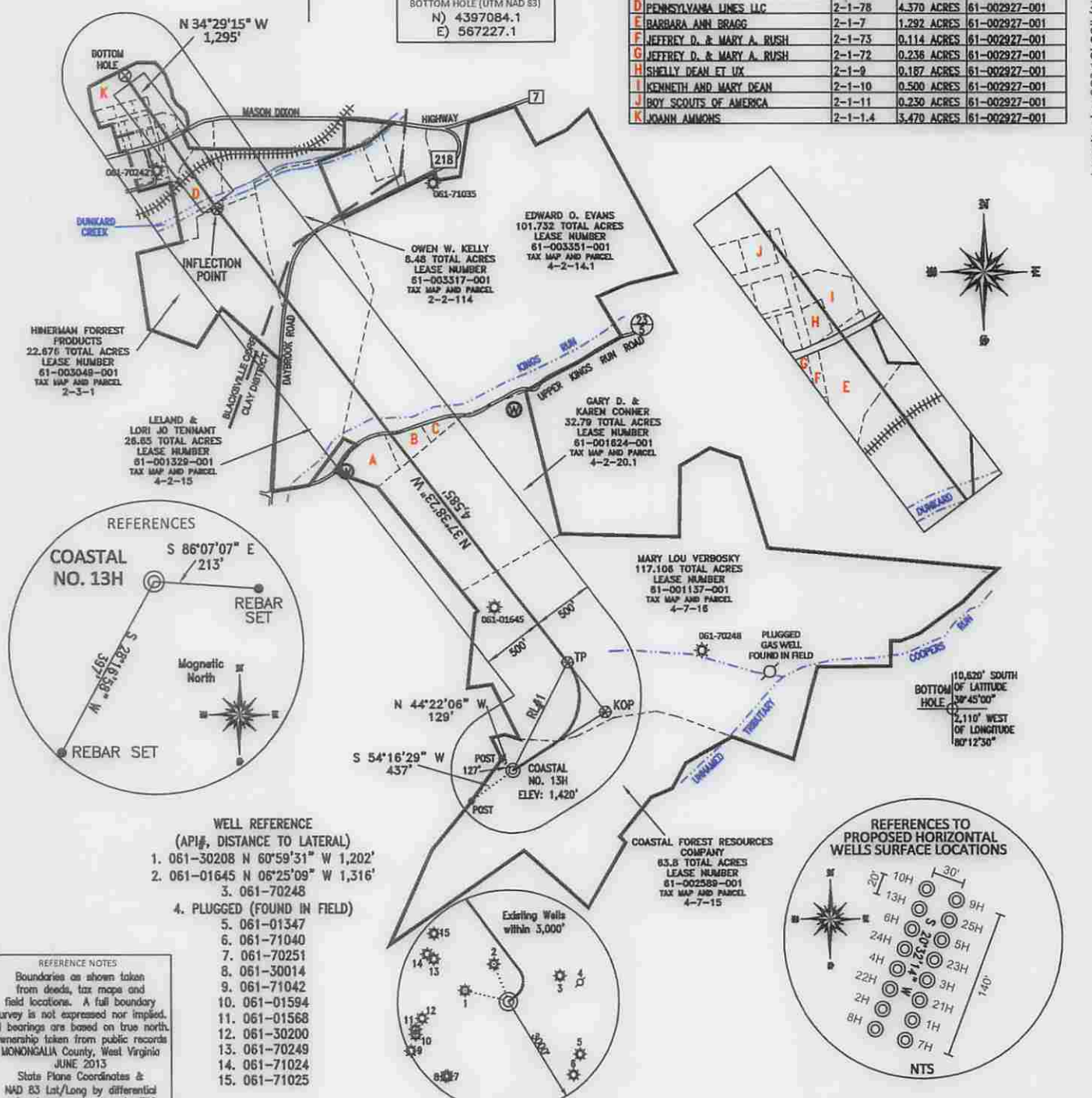
01/16/2015

NOTE:  
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.  
NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

SURFACE HOLE

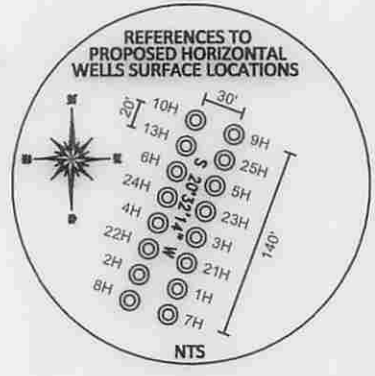
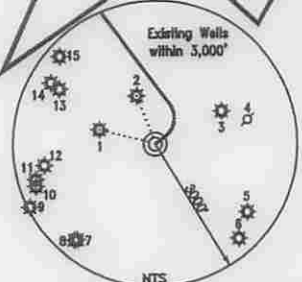
TOP HOLE (UTM NAD 83)  
N) 4395406.8  
E) 568198.0  
BOTTOM HOLE (UTM NAD 83)  
N) 4397084.1  
E) 567227.1

A	GEORGE A. SINES	4-2-19	2,890 ACRES	61-003351-001
B	GEORGE A. SINES	4-2-19.2	1,000 ACRES	61-003351-001
C	GEORGE A. SINES	4-2-19.1	1,200 ACRES	61-003351-001
D	PENNSYLVANIA LINES LLC	2-1-78	4,370 ACRES	61-002927-001
E	BARBARA ANN BRAGG	2-1-7	1,292 ACRES	61-002927-001
F	JEFFREY D. & MARY A. RUSH	2-1-75	0,114 ACRES	61-002927-001
G	JEFFREY D. & MARY A. RUSH	2-1-72	0,236 ACRES	61-002927-001
H	SHELLEY DEAN ET UX	2-1-9	0,167 ACRES	61-002927-001
I	KENNETH AND MARY DEAN	2-1-10	0,500 ACRES	61-002927-001
J	BOY SCOUTS OF AMERICA	2-1-11	0,230 ACRES	61-002927-001
K	JOAHN AMMONS	2-1-14	3,470 ACRES	61-002927-001



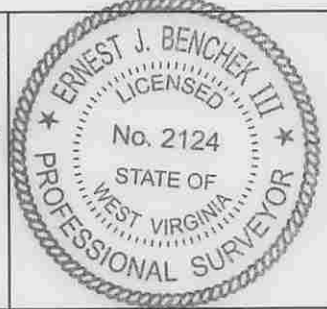
- WELL REFERENCE (API#, DISTANCE TO LATERAL)
- 061-30208 N 60°59'31" W 1,202'
  - 061-01645 N 06°25'09" W 1,316'
  - 061-70248
4. PLUGGED (FOUND IN FIELD)
- 061-01347
  - 061-71040
  - 061-70251
  - 061-30014
  - 061-71042
  - 061-01594
  - 061-01568
  - 061-30200
  - 061-70249
  - 061-71024
  - 061-71025

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 MONONGALIA County, West Virginia JUNE 2015  
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drafted by: EAK



FILE #: NNE12  
DRAWING #: 2391  
SCALE: PLAT: 1" = 1200'  
TICK MARK: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING 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: [Signature]  
L.L.S. #2124: Ernest J. Benchek III



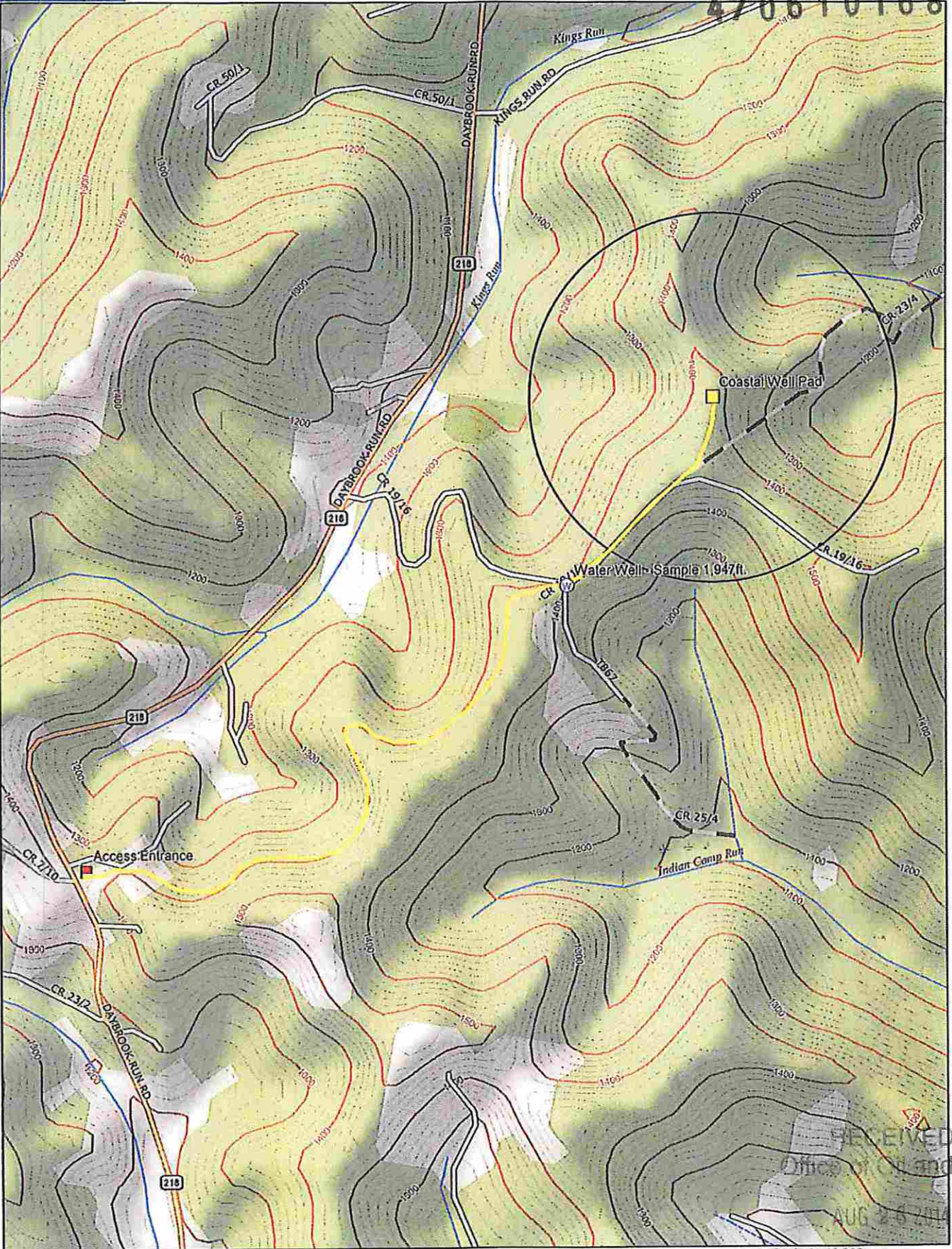
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304

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

WATERSHED: DUNKARD CREEK ELEVATION: 1,420'  
COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV  
SURFACE OWNER: COASTAL FOREST RESOURCES COMPANY ACREAGE: 63.8 +/- 01/16/2015  
OIL & GAS ROYALTY OWNER: WACO OIL AND GAS, ET AL ACREAGE: 389.613 +/-  
LEASE NUMBERS: \_\_\_\_\_

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

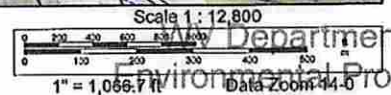
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,129' TMD: 14,723'  
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS  
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



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AUG 26 2014

01/16/2015

Department of Environmental Protection