west virginia department of environmental protection

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,

for

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 57th 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.

Sincerely,

Hollie M. Medley
Regulatory Coordinator

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Office of Oil and Gas

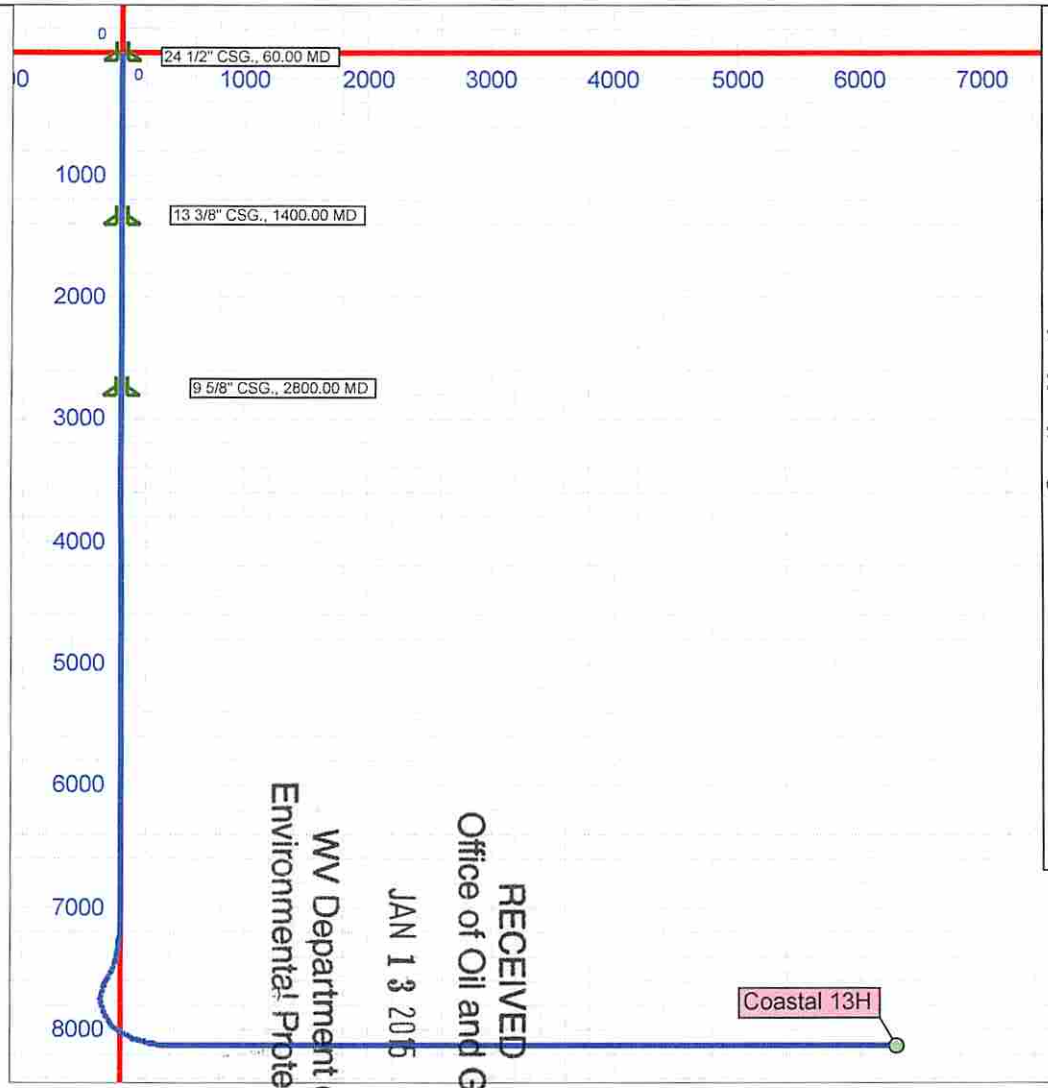
JAN 15 2015

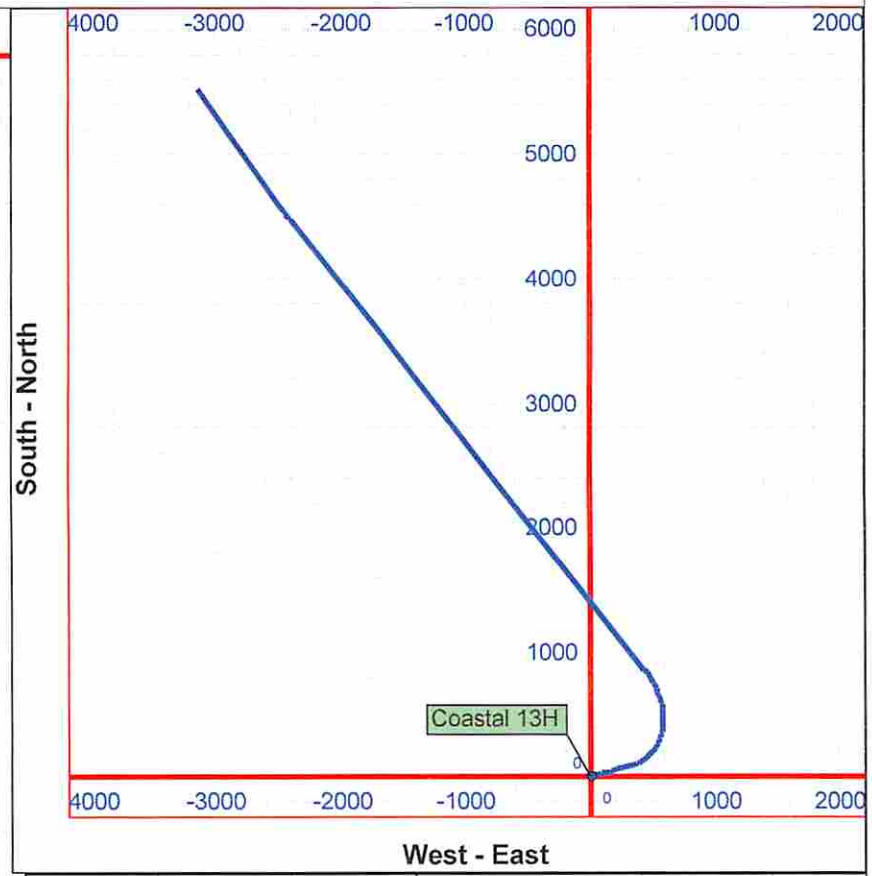
WV Department of
Environmental Protection

4706101688 MOD

Job Number:
Company: Northeast Natural Energy
Lease/Well: Coastal 13H
Location: Coastal
Rig Name: Pioneer 63
State/County: 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





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

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

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Office of Oil and Gas
JAN 13 2015
WV Department of
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Performance Drilling Technology, Inc. - HawkEye™ ©2014

SURFACE HOLE DEC. LONG: 80.204667
SURVEYED LONG: 80° 12' 16.8"

10,720'

Latitude: 39° 42' 30" (NAD27)

Longitude: 80° 10' 00" (NAD27)

950'

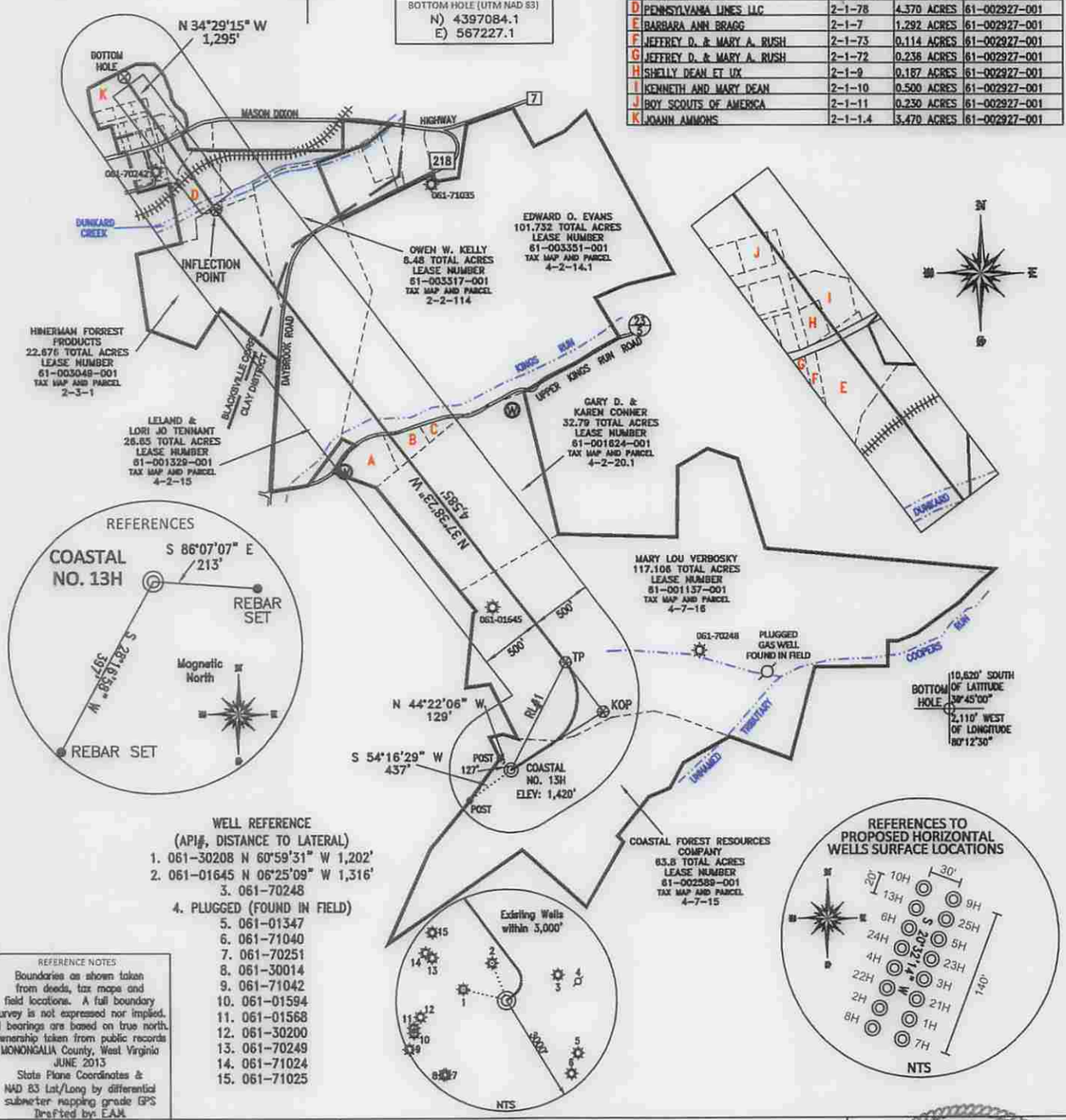
SURFACE HOLE DEC. LAT: 39.705717
SURVEYED LAT: 39° 42' 20.6"

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	2-1-73	0.114 ACRES	61-002927-001
G	JEFFREY D. & MARY A. RUSH	2-1-72	0.236 ACRES	61-002927-001
H	SHELLY DEAN ET UX	2-1-9	0.187 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	JOANN AMMONS	2-1-1.4	3.470 ACRES	61-002927-001



WELL REFERENCE
(API#, DISTANCE TO LATERAL)
1. 061-30208 N 60°59'31" W 1,202'
2. 061-01645 N 06°25'09" W 1,316'
3. 061-70248
4. PLUGGED (FOUND IN FIELD)
5. 061-01347
6. 061-71040
7. 061-70251
8. 061-30014
9. 061-71042
10. 061-01594
11. 061-01568
12. 061-30200
13. 061-70249
14. 061-71024
15. 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 2013
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: EAM

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: _____

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III
LICENSED
No. 2124
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: JANUARY 12, 2015

OPERATOR'S WELL #: COASTAL NO. 13H

API WELL #: 47 (STATE) 61 (COUNTY) MOD 01688H6A (PERMIT)

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 +/-

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

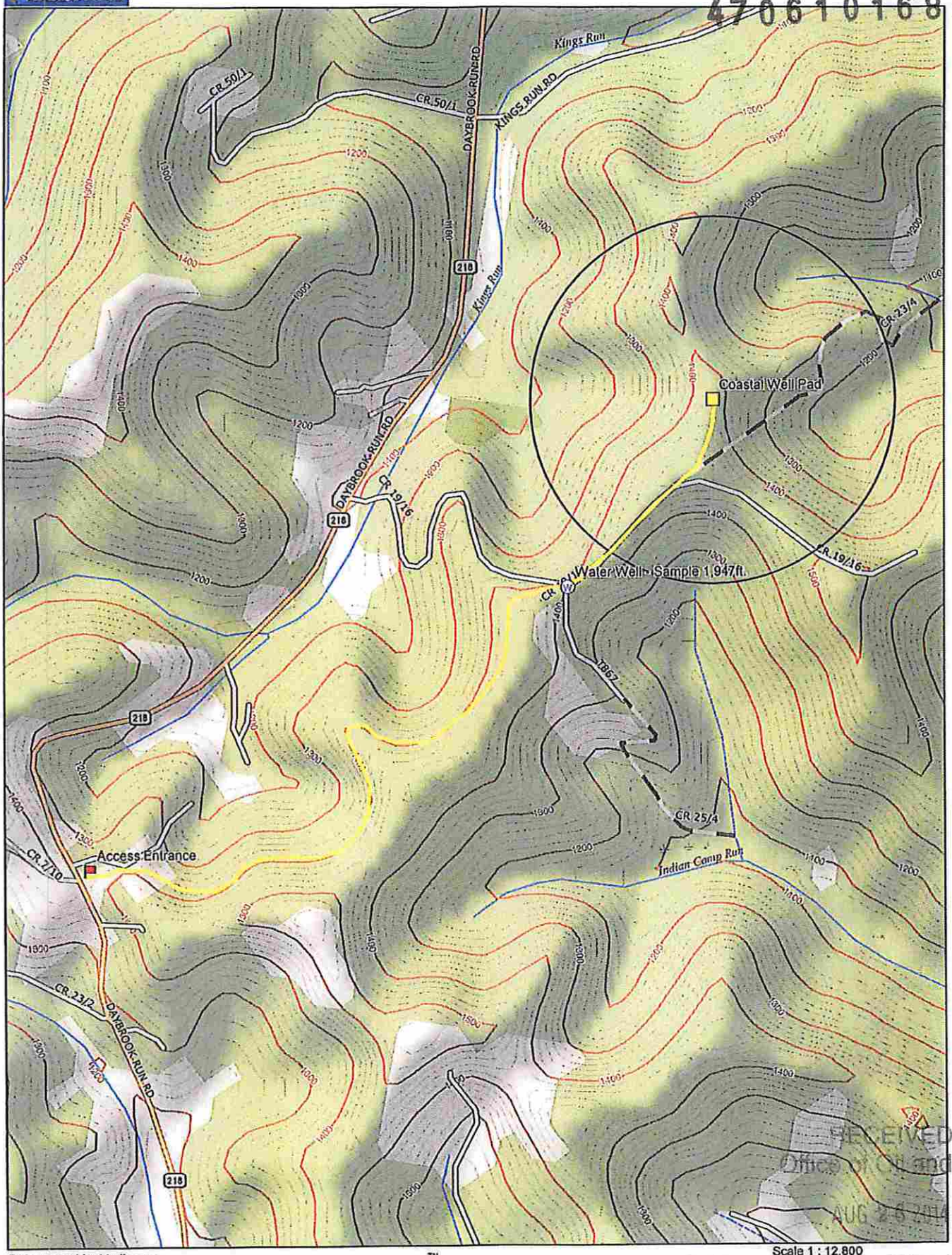
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DeLORME

XMap® 7

4706101688



Data use subject to license.

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www.delorme.com

TN

MN (8.5°W)

Scale 1 : 12,800

1" = 1,066.7 ft

Data Zoom 14-0

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Office of Oil and Gas
AUG 26 2014
WV Department of
Environmental Protection