



west virginia department of environmental protection

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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Tuesday, October 03, 2017
WELL WORK PERMIT
Vertical / Plugging

ASCENT RESOURCES-MARCELLUS, LLC
3501 NW 63RD STREET

OKLAHOMA CITY, OK 73116

Re: Permit approval for H. NOLAND N-15
47-103-01546-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.


James A. Martin
Chief

Operator's Well Number: H. NOLAND N-15
Farm Name: WV PUBLIC LAND CORP.
U.S. WELL NUMBER: 47-103-01546-00-00
Vertical / Plugging
Date Issued: 10/3/2017

Promoting a healthy environment.

10/06/2017

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

10301546P

WW-4B
Rev. 2/01

1) Date 9/13, 2017
2) Operator's
Well No. Nolan, Henry N-15
3) API Well NO. 47-103 - 01546

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___/ Gas ___/ Liquid injection X/ Waste disposal ___/
(If "Gas, Production ___ or Underground storage ___) Deep ___/ Shallow ___

5) Location: Elevation 959' Watershed Piney Fork
District Green County Wetzel Quadrangle Centerpoint

6) Well Operator Ascent Resources - Marcellus 7) Designated Agent Eric Gillespie
Address 3501 NW 63rd Address 100 Star Ave. Suite 120
Oklahoma City, OK 73116 Parkersburg, WV 26101

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Derek Haught Name TBD
Address P.O. Box 85 Address _____
Smithville, WV 26178

10) Work Order: The work order for the manner of plugging this well is as follows:
Attached

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WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____ Date _____

DL gwm

10/06/2017

Nolan, Henry N-15

API No 47-103-01546

	Casing		Cement	
	Size	Depth	Sx's	Est top
Surface	8-5/8	211'	100	Surface
Production	4- 1/2	2955'	300	1350'
Liner				

TD 2989'
Perfs 2878'-2881' & 2886'-2892'

Pull tubular's. Free point production casing, back off, rip/cut, or perforate casing as direct by state inspector. RIH w/ work string, pump Gel 6% spacer between cement plugs. Set cement plugs as followed.

Plug 1; 2858' – 2758'
 Plug 2; 50' in and 50' out of production casing stub
 Plug 3; 261' - 161' Surface casing in and out plug
 Plug 4; 100' – surface

SET 100' CIA PLUG FROM 830' - 730'
gum

Clean up location. Erect monument with API No per WV code

Tagged cement tops

Gel spacer is fresh water containing at less 6% of Bentonite clay by weight.

Cement plugs are Class A cement

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10301546

10-May-93
API # 47-103-01546 S

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: WVA. PUBLIC LAND CORP. Operator Well No.: H.NOLAND # N-15
LOCATION: Elevation: 959.00 Quadrangle: CENTER POINT

District: GREEN County: WETZEL
Latitude: 7700 Feet South of 39 Deg. 30Min. Sec.
Longitude: 7700 Feet West of 80 Deg. 40 Min. Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: RANDAL MICK
Permit Issued: 05/12/93
Well work Commenced: 9/10/93
Well work Completed: 10/10/93
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 2989
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	217	217	100 Sk.
4 1/2	2942.15	2942.15	300 Sk.

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2842 - 2908
 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
 Final open flow * MCF/d Final open flow * Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

* Water Injection Well
 Second producing formation Pay zone depth (ft)
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 12/6/93

TREATMENT:

Perforated:

2878 - 2881 }
2886 - 2892 }

2 Holes Per Foot - 18 Holes

Treated:

300 Gal. 15% HCL Acid, 279 Bbls. Gelled Water &
1500# 80/100 Sand & 3500# 20/40 Sand

WELL LOG:

Sand & Shale	0 - 490
Sand	490 - 525
Sand & Shale	525 - 1030
Sand	1030 - 1070
Sand & Shale	1070 - 1375
Sand	1375 - 1490
Sand & Shale	1490 - 1800
Sand	1800 - 1830
Shale	1830 - 1975
Little Lime	1975 - 1981
Pencil Cave	1981 - 2005
Big Lime	2005 - 2050
Big Injun	2050 - 2270
Shale	2270 - 2842
Stray	2842 - 2850
Gordon	2850 - 2908
T.D.	2989

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FORM NW-3(B) FILE COPY
(Obverse)

10/91 RECEIVED
Oil & Gas
UIC Section
APR 15 93
17186



1) Date: April 13, 1993
2) Operator's Well No. HENRY NOLAND #N-15
3) SIC Code
4) API Well NO. 47 - 103 - 1546-LT
State County Permit
5) UIC Permit No.

76P

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

- 6) WELL TYPE: Liquid injection Gas injection (not storage) _____ Waste disposal _____
- 7) LOCATION: Elevation: 959' Watershed: Piney Fork
District: Green County: Wetzel Quadrangle: Centerpoint 286
- 8) WELL OPERATOR Pennzoil Products Co. 37450
Address P.O. Box 5519
Vienna, WV 26150
- 9) DESIGNATED AGENT I. A. Grews
Address P.O. Box 5519
Vienna, WV 26105
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Randall Mick Mike Underwood
Address 111 Blackshere Dr. Rt. #2, Box 135
Mannington, WV Salem, WV 26426
26582
- 11) DRILLING CONTRACTOR:
Name _____
Address _____
- 12) PROPOSED WELL WORK: Drill Drill deeper _____ Redrill _____ Stimulate
Plug off old formation _____ Perforate new formation _____ Convert _____
Other physical change in well (specify) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth 2854 feet(top) to 2869 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well), 2955 ft.
- 15) Approximate water strata depths: Fresh 139 feet; salt, ~~250~~ feet.
- 16) Approximate coal seam depths: 770
- 17) Is coal being mined in the area? Yes _____ No
- 18) Virgin reservoir pressure in target formation, 1400 psig. Source ESTIMATED
- 19) Estimated reservoir fracture pressure, 3500 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2800 2380
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh water, produced water, bactericides, and other chemicals as necessary to maintain water quality and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge Filters and/or Coal Bed Filters recovery.
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

24) CASING AND TUBING PROGRAM

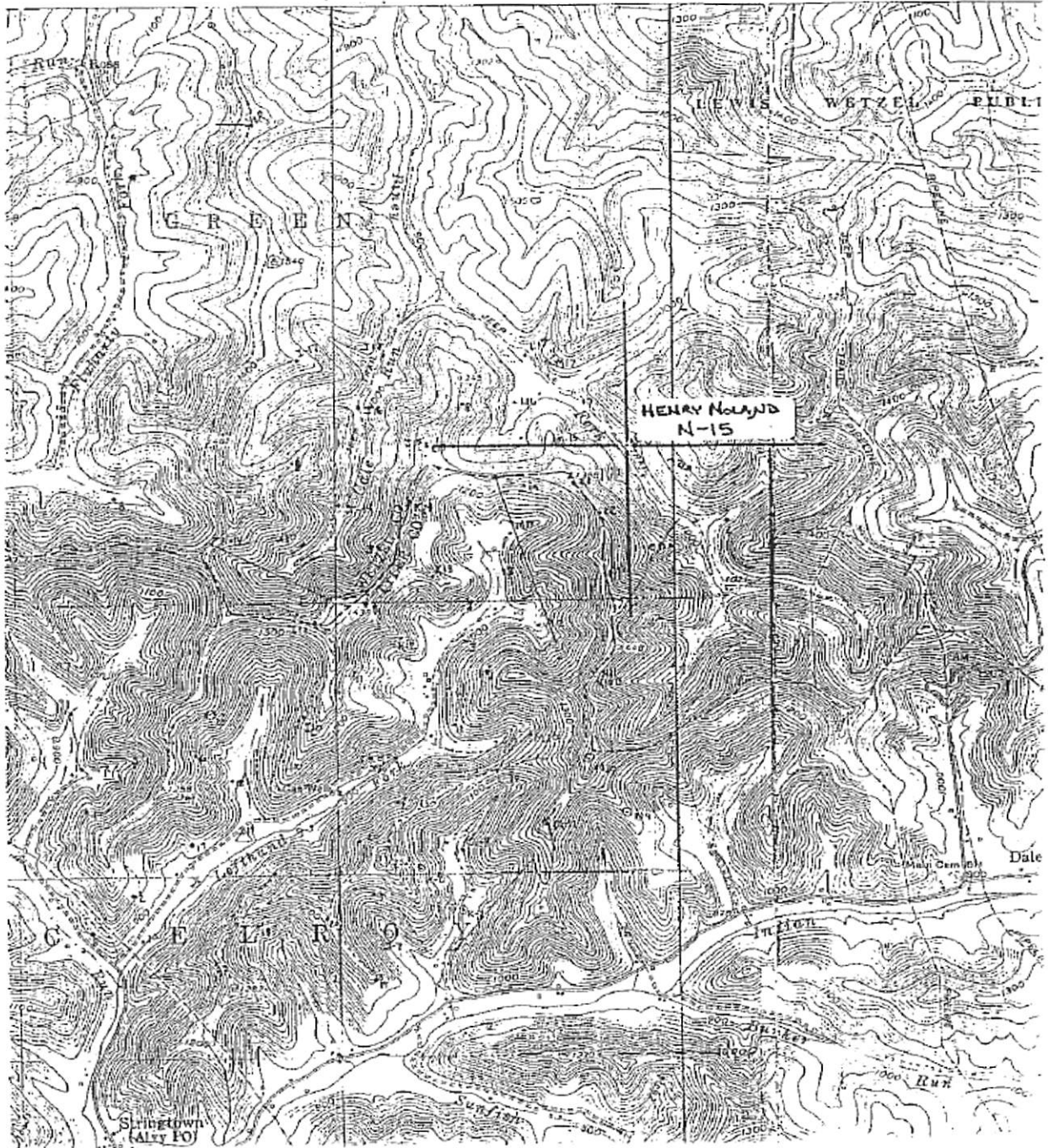
CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor								Kirch
Fresh water	8 5/8	I.S.	20	X		211	211	Cement to Surface
Coal								Size
Intermediate								Depth set
Production	4 1/2	J-55	10.5	X		2955	2955	Cement over Salt Sand
Tubing								Perforations:
Liners								Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Henry & Mary Noland
by deed _____ lease other contract _____ dated December 7, 1994 of record in the
Wetzel County Clerk's office in Lease Book 46 at page 93

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

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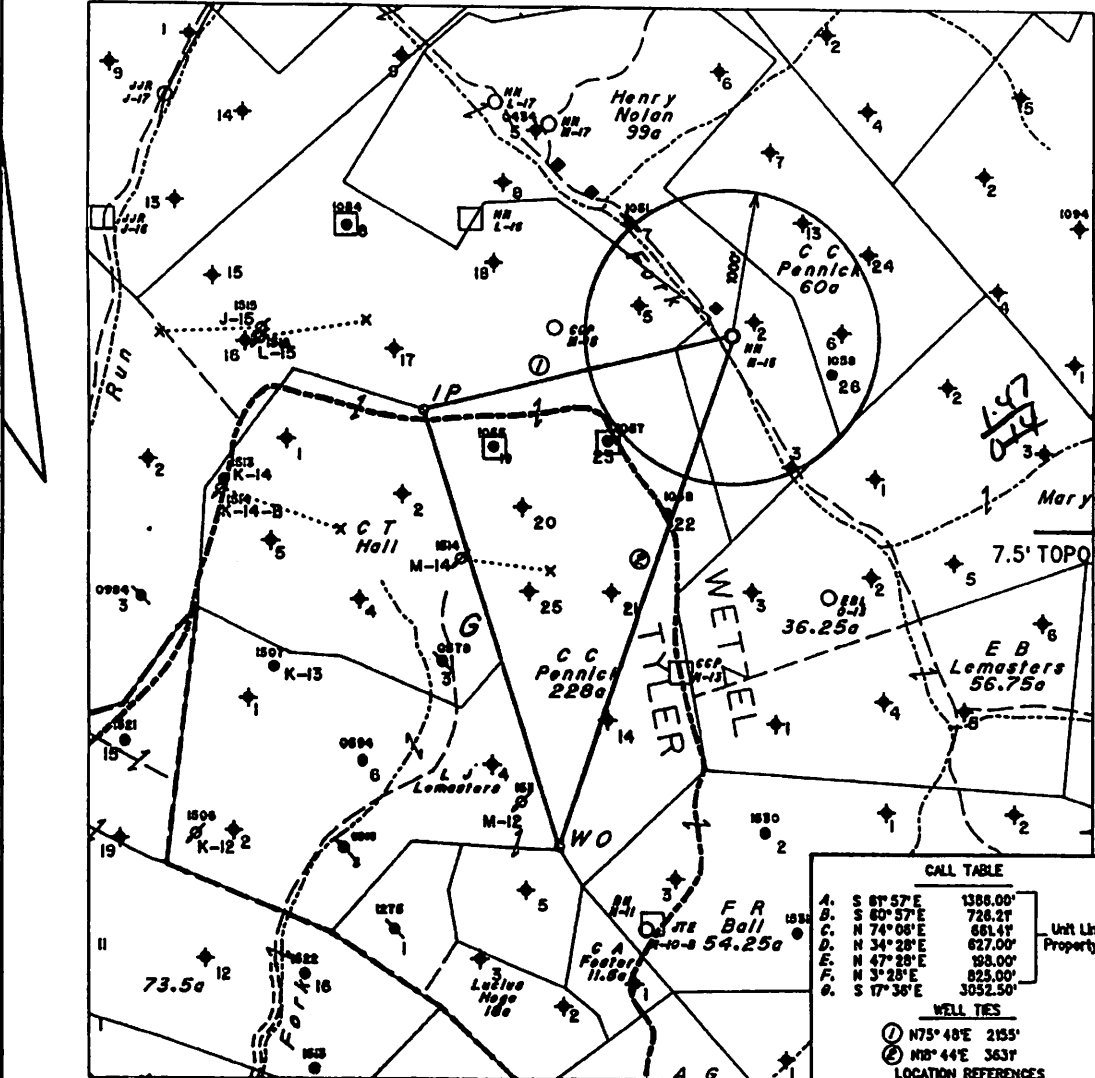
MS 5-6-93

LATITUDE 39° 30' 00"

700'

LONGITUDE 80° 40' 00"

7700'



Note: All Known Water Supply Sources Located Within 1000' Of Proposed Well Are Shown

HJ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

CALL TABLE		
A.	S 87° 57' E	1388.00'
B.	S 60° 57' E	728.21'
C.	N 74° 08' E	681.41'
D.	N 34° 28' E	627.00'
E.	N 47° 28' E	198.00'
F.	N 3° 28' E	825.00'
G.	S 17° 38' E	3052.50'

Unit Line to Property Line

WELL TIES

① N75° 48' E 2155'

② N8° 44' E 3631'

LOCATION REFERENCES

N58° 38' W 247' 1/2" Iron Rod

S52° 12' E 18' 8" Poplar

S59° 49' W 69' 8" Poplar

FILE NO. 523

MAP NO. N58 N 3 S E W 3

SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 in 200

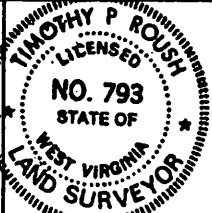
PROVEN SOURCE OF ELEVATION F.R. Ball No. 3

(47-095-0548) = 1152'

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 MINES.

(SIGNED) [Signature]

TIMOTHY P. ROUSH PS 793



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WV Department of Environmental Protection

STATE OF WEST VIRGINIA
DIVISION OF ENERGY
OIL AND GAS SECTION



DATE March 31, 19 93

FARM Henry Nolan NO. N-15

API WELL NO. 47-103-1546-L1

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 959' WATERSHED Play Fork

DISTRICT Green 5 COUNTY Wetzel

QUADRANGLE Centerpoint a 15 NW

SURFACE OWNER State of West Virginia ACREAGE 110 Ac.

OIL & GAS ROYALTY OWNER Pennzoil Products Co. et al. LEASE ACREAGE 160 Ac.

LEASE NO. 24422-50

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG 8-D Jacksonburg-Stringtown (A5)

TARGET FORMATION Gordon ESTIMATED DEPTH 2955'

WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews

ADDRESS P. O. Box 5519 675 ADDRESS P. O. Box 5519

Vienna, W.Va. 26105 4670 Vienna, W.Va. 26105

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WW-4A
Revised 6-07

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WV Department of
Environmental Protection

1) Date: 9/13/2017
2) Operator's Well Number
Nolan, Henry N-15
3) API Well No.: 47 - 103 - 01546

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>WV Dept of Natural Resources</u>	Name _____
Address <u>Commerce Division</u>	Address _____
<u>Capital Complex, Building 6, Room 525</u>	
(b) Name <u>Charleston, WV 25303</u>	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

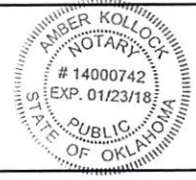
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Ascent Resources - Marcellus LLC
 By: Trent L. Carroll *[Signature]*
 Its: Senior Regulatory Analyst
 Address 3501 NW 63rd
Oklahoma City, OK 73116
 Telephone _____

Subscribed and sworn before me this 14 day of September, 2017
[Signature] Notary Public

My Commission Expires 1/23/18



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

10/06/2017

WW-9
(5/16)

SEP 15 2017

API Number 47 - 103 - 01546

Operator's Well No. Henry Nolan U-15

WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Ascent Resources - Marcellus, LLC OP Code 494514693

Watershed (HUC 10) Piney Fork Quadrangle Centerpoint

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

ANY WELL EFFLUENT MUST BE CONTAINED
IN TANKS AND DISPOSED OFFSITE, PROPERLY

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

J/W/m

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? NA

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Trent Carroll

Company Official Title Sr. Regulatory Analyst

Subscribed and sworn before me this 14 day of September, 20 17

[Signature]

Notary Public

My commission expires 1/23/18



10/06/2017

Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Ladino Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

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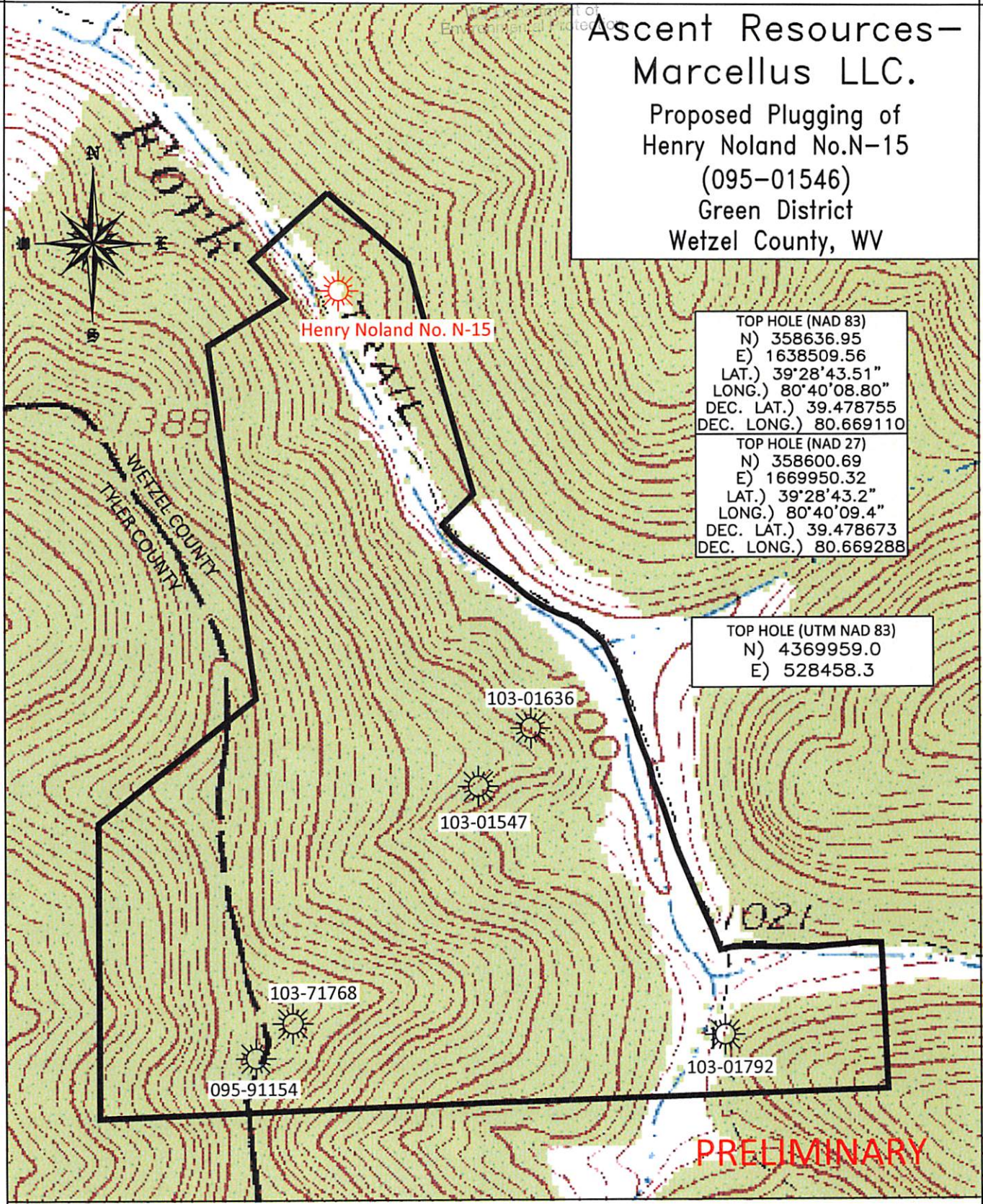
SEP 15 2017

WVD Department of
Environmental Protection

SEP 15 2017

Ascent Resources— Marcellus LLC.

Proposed Plugging of
Henry Noland No. N-15
(095-01546)
Green District
Wetzel County, WV

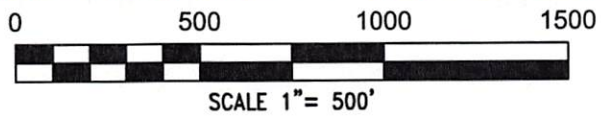


TOP HOLE (NAD 83)
 N) 358636.95
 E) 1638509.56
 LAT.) 39°28'43.51"
 LONG.) 80°40'08.80"
 DEC. LAT.) 39.478755
 DEC. LONG.) 80.669110

TOP HOLE (NAD 27)
 N) 358600.69
 E) 1669950.32
 LAT.) 39°28'43.2"
 LONG.) 80°40'09.4"
 DEC. LAT.) 39.478673
 DEC. LONG.) 80.669288

TOP HOLE (UTM NAD 83)
 N) 4369959.0
 E) 528458.3

BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southpointe, PA 15317 Phone: 724-746-1055



JULY 27, 2017

10301546 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

103

WELL LOCATION FORM: GPS

API: 47-095-01546 WELL NO.: N-15

FARM NAME: Henry Noland

RESPONSIBLE PARTY NAME: Ascent Resources - Marcellus LLC

COUNTY: Tyler WETZEL DISTRICT: McElroy GREEN

QUADRANGLE: Center Point

SURFACE OWNER: State of WV Public Land Corporation

ROYALTY OWNER: Ascent Resources - Marcellus LLC

UTM GPS NORTHING: 4369959.0

UTM GPS EASTING: 528458.3 GPS ELEVATION: 959'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

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4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature

Sr. Regulatory Analyst
Title

8/29/2017
Date

10/06/2017