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

May 19, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-7700007, issued to COLUMBIA GAS TRANSMISSION, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 7387
Farm Name: FREELAND, DAVID A.
API Well Number: 47-7700007
Permit Type: Re-Work
Date Issued: 05/19/2015

Promoting a healthy environment.

7700007 W

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.

3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.

4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

5. 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.

6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours

7. Well work activities shall not constitute a hazard to the safety of persons.

8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B
(Rev. 8/10)

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Columbia Gas Transmission, LLC

Operator ID	County	District	Quadrangle
307032	Preston	Portland	Terra Alta

2) Operator's Well Number: Terra Alta 7387 (existing well) 3) Elevation: 1928

4) Well Type: (a) Oil_____ or Gas X

(b) If Gas: Production ____ / Underground Storage X

Deep X / Shallow _____

5) Proposed Target Formation(s): Oriskany Proposed Target Depth: 5418 - 5443
6) Proposed Total Depth: 5465 (existing) Feet Formation at Proposed Total Depth: Oriskany
7) Approximate fresh water strata depths: 45', 340' (as reported by driller in 1948)
8) Approximate salt water depths: none reported by driller in 1948

9) Approximate coal seam depths: none reported by driller in 1948

10) Approximate void depths,(coal, Karst, other): none reported by driller in 1948

11) Does land contain coal seams tributary to active mine? no

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Obtain cement bond log. Install new API wellhead. Re-perforate Oriskany. Perform acid stimulation.

* Casing and tubing listed below are existing.

13) **CASING AND TUBING PROGRAM** MDC 3/13/2015

TYPE	SPECIFICATIONS Size	Grade	Weight per ft	FOOTAGE INTERVALS For Drilling	Left in Well	CEMENT Fill -up (Cu. Ft.)
Conductor	16	??	??	20	20	no record of cement
Fresh Water	11.75	??	??	331	331	likely cemented but no record
Intermediate	9.625	J-55	??	1588	1250 - 1588	likely cemented but no record
Intermediate	7	J-55	23	4799	4799	300 sx
Production	4.5	J-55	12.6	5470	5470	Stage 1: 100 sx / Stage 2: 5 sx
Tubing						
Liners						

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Packers: Kind: _____
Sizes: _____
Depths Set _____

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FORM 216 AA 1 CSD

COLUMBIA GAS SYSTEM

OFFICE MEMORANDUM

TO MR. ROBERT C. WEIDNER

DATE OCTOBER 5, 1982

FROM MARK A. NEWMAN

SUBJECT TERRA ALTA NORTH - WELL 7387

Well 7387 was reconditioned for storage in 1960. During drilling, cable tools or junk iron was encountered at 4799'. The 7" casing was then set from 4799' to surface and cemented to 3750'. At this point, the hole was diverted to the side of the cable tools or junk iron and drilled to its new total depth at 5470'. Next, 4-1/2", J-55, 12.6 #/ft tubing was set from total depth to surface and cemented by a two-stage cement job consisting of 110 sacks of latex cement. The Oriskany was perforated from 5421' - 5461'. The Chert was not perforated. The attached casing program and well record should help to illustrate the method of completion.

Terra Alta North's Well 7387 should be considered for reconditioning. Anticipating the need for more deliverability in 1985 and beyond, Well 7387 should be redrilled from 4799' - 5470', new 4-1/2" casing set and cemented to surface and the Chert and Oriskany zones should be perforated and acidized. I would recommend reconditioning to occur in 1985. At the time of reconditioning, the wellhead can be modified.

Mark A. Newman

MARK A. NEWMAN
STORAGE ENGINEER

MAN/ss

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Form OG-10

7700007W

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle _____

Permit No. Pres - 7 - Redrill

WELL RECORD

Oil or Gas Well Gas-Redrill (KIND)

Company Atlantic Seaboard Corporation
Address P.O. Box 1273, Charleston, W.Va.
Farm J. Paul Martin Acres
Location (waters) Salt Lick Creek
Well No. X-76-7387 Elev.
District Portland County Preston
The surface of tract is owned in fee by J. Paul Martin
Address
Mineral rights are owned by J. Paul Martin
Address
Drilling commenced 7-31-60
Drilling completed 9-1-60
Date Shot - From - To -
With -
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 5,635 M Cu. Ft.
Rock Pressure 570 lbs. 48 hrs.
Oil - bbls., 1st 24 hrs.
WELL ACIDIZED See below
WELL FRACTURED -

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10			Size of
8¼			
7" ~~xxx~~ 23#	4799'	4799'	Depth set
5 3/16			
4½" 12.6#	5472'	5472'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED ____ SIZE ____ No. Ft. ____ Date
See below
COAL WAS ENCOUNTERED AT None FEET ____ INCHES
____ FEET ____ INCHES ____ FEET ____ INCHES
____ FEET ____ INCHES ____ FEET ____ INCHES

RESULT AFTER TREATMENT See below
ROCK PRESSURE AFTER TREATMENT See below
Fresh Water - Feet - Salt Water - Feet -

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Chert			5234'	5402'			
Shale			5402'	5418'			
Oriskany			5418'	5465'	Gas		

Well ASC X-76-7387 (formerly Hope 9208) was drilled out with rotary using mud to original total depth and was completed as a storage gas injection and withdrawal well. The 7" 23# casing was cemented with 300 sacks of 4% gel cement. This string of casing was run to control a caving and loss circulation condition.

Following redrilling to the original total depth the 4½", 12.6# casing was run and cemented with 110 sacks of Latex cement. The 4½" casing was perforated with capsule jets from 5421' - 5462' with 4 shots/ft. Following perforating, there was a show of gas. Following acidization with 500 gallons mud cleanout acid, the open flow was 231 MCF. Following 4000 gallons HCL acid, open flow was 2,250 MCF. Following final acid job of 8,000 gallons of HCL Acid, open flow was 5,635 MCF.

48 Hour rock pressure following final shut-in was 570 psi.

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(over)

DETAILED SKETCH OF WELL NO. 7387

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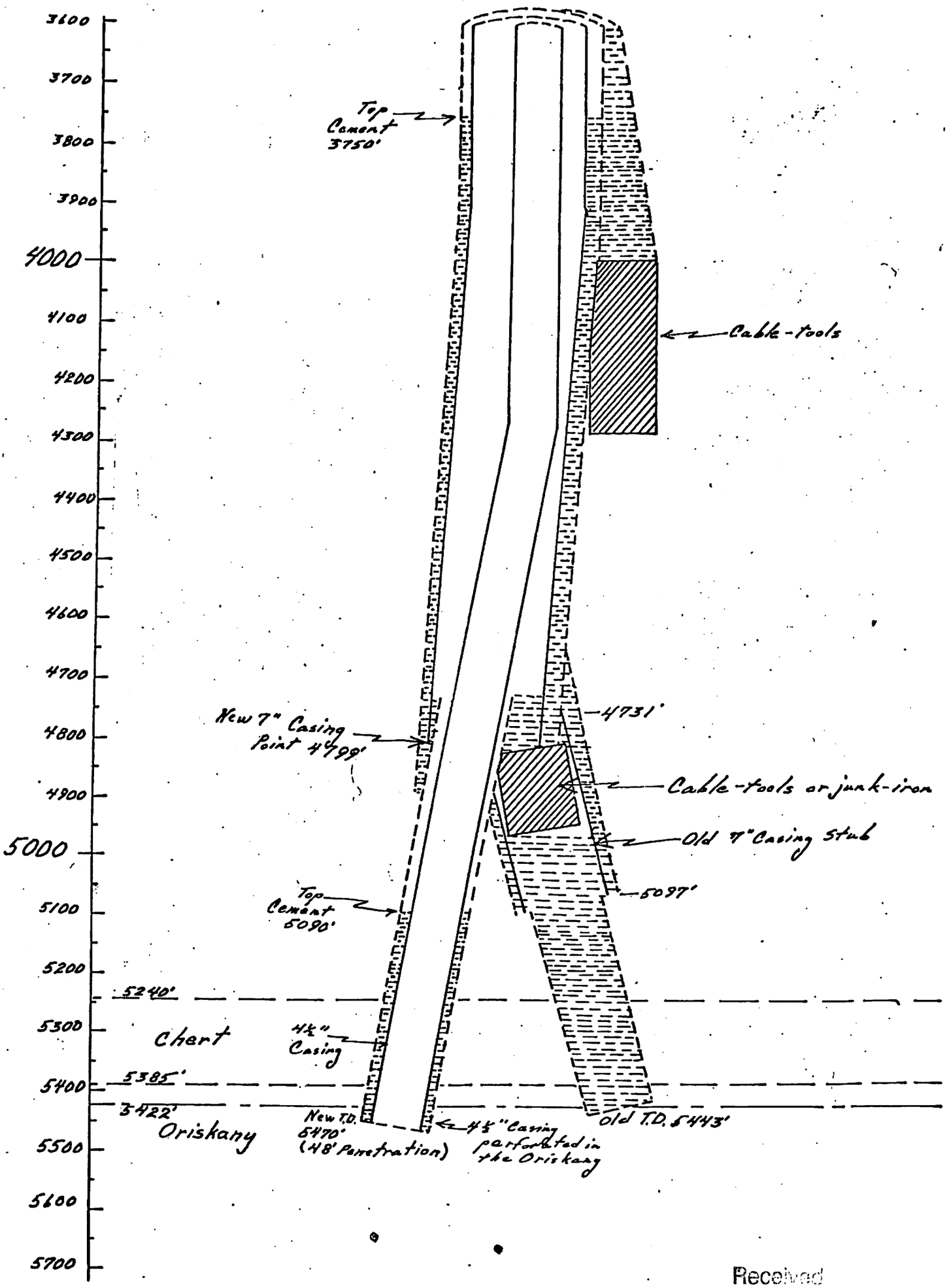

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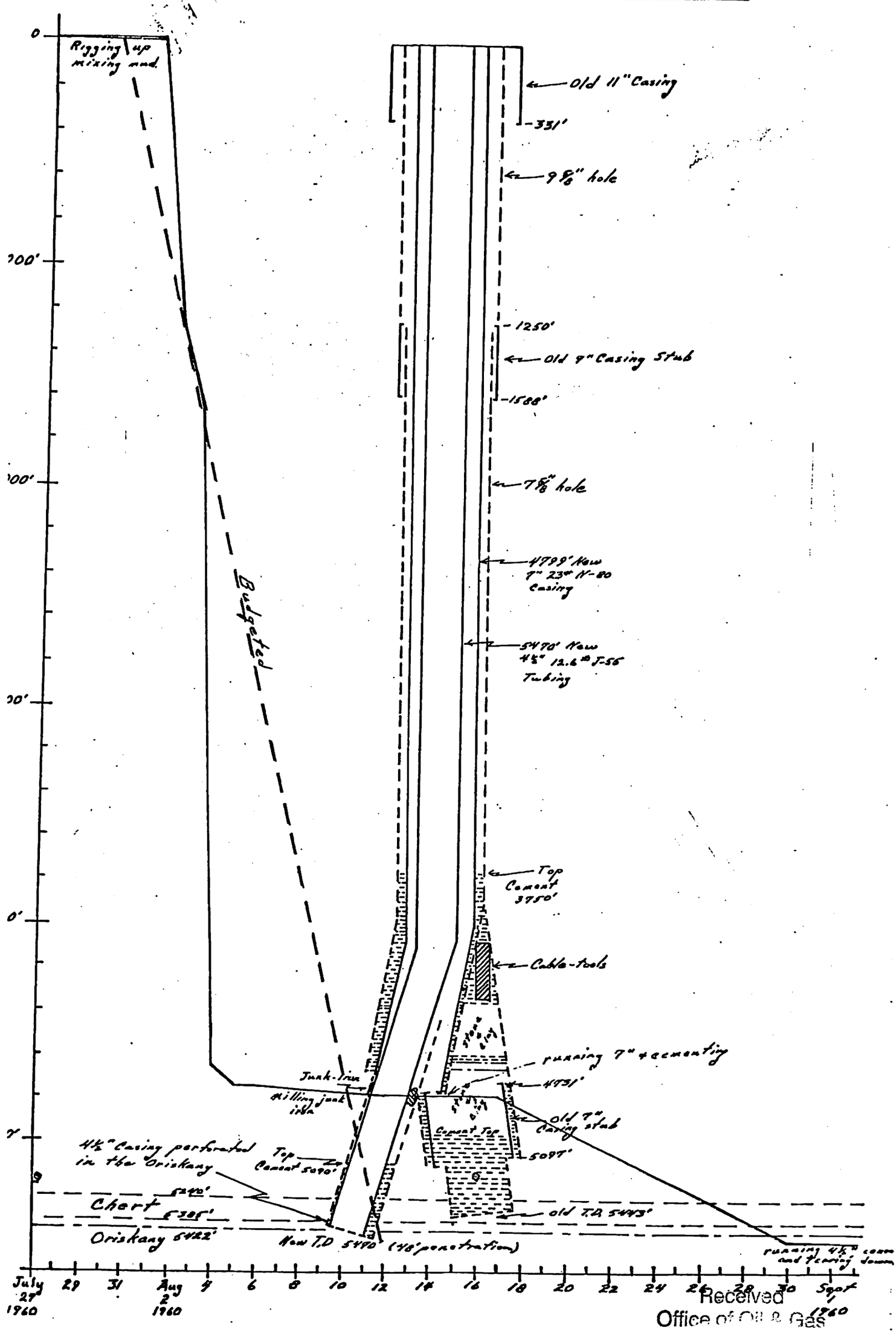
PENETRATION - TIME CURVE WELL 7387 CASING PROGRAM 7700007W



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TERRA ALTA 7387

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Well 9208 J.Paul Martin

Record of Abandonment

Commenced Abandoning Oct. 16, 1953
Completed Abandoning Nov. 12, 1953.

Total Depth 5443'. Filled with cement from 5443 to 4940. Ripped 7" casing @ 4631'. Pulled 4631' and left 454' in hole.

Bridged with clay and stone from 4685' to 4665'. Installed 4-Bgs. Cement 4665 to 4655'. Installed Bridge and 5-Bgs. cement from 1625' to 1615'. Ripped 9" casing at 1250'. Pulled 1250' of 9" casing and left 338' in hole. Installed bridge and filled with clay mud from 1250 to 1175'. Run 10-Bgs. cement 1175 to 1125'. Installed Bridge and cemented from 350 to 330' with 13-Bgs. cement. Filled with Clay mud 330 to 50'. Installed 10-Bgs. cement from 50 to 30'. Filled with clay to surface. 331' of 11" O.D. Casing and 19' 6" of 16" O.D. Pipe left in well.

Abandoning done by Acme Drilling Company

Driller J.H.Toothman
T.Dresser H. J. Lamp

Left in Hole - Pipe Tally Measure

19' 6"	16" Pipe	
333' 3"	11" Pipe	
341' 7"	9" O.D. Casing	
442' 0"	7" O.D. Casing	
1	11-3/4" Steel Casing Shoe	
1	9"	Do
1	7"	Do

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TERRA ALTA WELL 7387 COPY OF ORIGINAL RECORD 7700007 W

FORM 124 BLANK 1M-4-52

Record of Hope Natural Gas Co. N. S. E. W. Acres 121

Well No. 9208 Lease No. 53822 Name J. Paul Martin District Bridgeport

District Portland County Preston State West Va.

Location Made Feb. 3, 1948 First Work Done

Rig Commenced Rig Completed

Drilling Commenced Mar. 27, 1948 Drilling Completed Sept. 25, 1948

Rig Contractor Guy L. Warner {Drilling Contractor / If H. N. G. Co. Tools. String No.} Guy L. Warner

Drillers Orea Nutter, John Morris, Guy Heckard Tool Dressers Willis Ogden, B.L.Davisson

FORMATION	Open or Close Hard or Soft	TOP	BOTTOM	Steel Line Measurement	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
						clay mud	19'6" - 16" casing	
Gravel		0	22					
Lime		22	237		45 30 50	10 sks cement		Hole full
Slate		237	275			clay mud		
Lime		275	300					
Slate		300	305		330	Bridge & 8-13 sks cement		331' 11" casing on shoe
Lime		305	540		340 350			3 Bailers per Hr.
Shale		540	965			Void		
Lime		965	1040					
Shale		1040	1155		1125	10 sks cement		
Lime		1155	1209		1175	Bridge & clay		
BENSON SAND		1209	1238					
Lime		1238	1472		1250	Void	1250 9" casing ripped 341' 7" - 9" casing in well 1588 Bottom 9" casing	
Shale		1472	1585	1565				
Lime		1585	1604					
Slate		1604	1840		1615	Bridge & cement		
Lime		1840	1860		1625			
Shale		1850	2300					
Slate & Shells		2300	2400					
Lime		2400	2700					
Slate & Shells		2700	3425					
Lime		3425	3590					
Slate & Shells		3590	3620					
BROWN SHALE		3620	3850			Void		
Black Slate		3850	3900					
Lime		3900	3930					
Dark Shale		3930	4224					
TULLY LIME		4224	4232					
Shale		4232	4350	4248				
Slate		4350	4365					
Shale		4365	4498				1650 7" casing open	
Lime		4498	4505		4655 4665	Cement		
Shale	Gray	4505	4580		4685	Clay - Stone	4785 Top 7" casing cement	
Shale	Black	4580	4987		4940	Void	454' 7" casing in well	
Shell	Hard	4987	4990					
Shale		4990	5180				5085 Bottom 7" casing	
Lime	Gritty	5180	5183					
Brown Shale		5183	5190			104 sks cement		
CORNIFEROUS LIME		5190	5212					
CHERT	Gray	5212	5264				5245	25/10 W. 3/4" F.M.
							5247	57/10 W. 3/4" F.M.
							5252-58	6/10 W. 2" O.F.
							5264	8/10 W. 2" O.F.
CORNIFEROUS LIME		5264	5409				5413	100/10 M. 1" F.M.
ORISKANY SAND		5409					5414-29	25/10 M. 6-5/8" O.F.
Total Depth			5443		5443			

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completed and put in gas
tested 24/10 Mercury 5-3/16" OF
102 ...
7700007W

Total Depth

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Steel Line Measurem't		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings.
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
16"			19	6			19	6			19	6			
11"			331				331				331				
9"			1588				1588				1588				
7" N-80			5085				5085				5085				

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
11"	Casing Shoe			Set @ 331'
9"	Do			Set @ 1588'
7"	Do			Set @ 5085, Cemented from 4785' to 5085'

SHOOTING RECORD (IF SHOT BEFORE OR UPON COMPLETION OF WELL)

DATE	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
				NOT SHOT									

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CEMENTING RECORD

Date Cemented _____ Size Hole Cemented _____ Size Casing Cemented _____
Top Pittsburgh Coal No Coal Top Cementing _____ Amount Cement Used _____
Bottom Pittsburgh Coal _____ Bottom Cementing _____ Amount Sand Used _____
Mr. _____ of _____ Coal Company on ground when coal was cemented.
Remarks: _____ Signature of persons who cemented well

Approved _____
District Superintendent.

7700007W

WW-2A1
(Rev. 1/11)

Operator's Well Number Terra Alta 7387

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
J. Paul Martin, et ux	Columbia Gas Transmission, LLC	Storage Lease 90335	338 / 537

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Columbia Gas Transmission, ~~LLC~~
By: James E. Amos
Its: Senior Well Services Engineer

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MAR 30 2015

WW-2A
(Rev. 6-07)

1). Date: 3/3/15

2.) Operator's Well Number Terra Alta 7387

3.) API Well No.: State 47- County 077 - Permit 00007

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name David A. & Angela J. Freeland
Address 8461 Saltlick Rd
Terra Alta, WV 26764

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator
Name not operated
Address

(b) Coal Owner(s) with Declaration
Name not operated
Address

Name
Address

6) Inspector Gayne Knitowski
Address PO Box 108
Gormania, WV 26720
Telephone 304-546-8171

(c) Coal Lessee with Declaration
Name
Address

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

___ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

x Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

___ Personal Service (Affidavit attached)
X Certified Mail (Postmarked postal receipt attached)
___ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.

Well Operator Columbia Gas Transmission, LLC
By: James E. Amos
Its: Senior Well Services Engineer
Address 1700 MacCorkle Ave. SE
Charleston, WV 25325-1273
Telephone 304-483-0073

Subscribed and sworn before me this 11th day of March, 2015

Mary Marie Clendenin
Notary Public
My Commission Expires 3/22/2015

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MARY MARIE CLENDENIN
COLUMBIA GAS TRANSMISSION CORPORATION
RR 2, BOX 138
SANDYVILLE, WV 25275

Received
MAR 30 2015

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 depprivacyofficer@wv.gov

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OFFICIAL USE

TERRA ALTA, WV 26764

Postage	$ $1.82
Certified Fee	$3.30
Return Receipt Fee (Endorsement Required)	$2.70
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $7.82

MAR 26 2015

0271
06

Postmark Here

03/26/2015

Sent To: David A & Angela J. Freeland

Street, Apt. No.; or PO Box No. 8461 Saltlick Rd.

City, State, ZIP+4 Terra Alta, WV 26764

PS Form 3800, August 2006 See Reverse for Instructions

7700007W

WW-9
Rev. 5/10

Page _____ of _____
API Number 47 - 077 - 00007
Operator's Well No. Terra Alta 7387

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed Saltlick Creek Quadrangle Terra Alta

Elevation 2002 County Preston District Portland

Description of anticipated Pit Waste: no earthen pit to be utilized

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

Will a synthetic liner be used in the pit? N/A. If so, what mil.? _____

Proposed Disposal Method For Treated Pit Wastes:

ANY WELL EFFLUENT MUST BE CONTAINED IN TANS. gwh

_____ Land Application
X Underground Injection (UIC Permit Number 34-009-03761, 34-121-20459, 47-093-00103, 34-167-23862)
_____ Reuse (at API Number _____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
X Other (Explain Pinegrove Landfill - Amanda, OH

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. freshwater
-If oil based, what type? Synthetic, petroleum, etc. _____
Additives to be used? biocide, surfactant
Will closed loop system be used ? yes
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. not anticipated
-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust _____
-Landfill or offsite name/permit number? IF NEEDED: Pinegrove Landfill - Amanda, OH

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 _____

Company Official (Typed Name) James E. Amos

Company Official Title Senior Well Services Engineer

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Office of Oil & Gas
MAR 30 2015

Subscribed and sworn before me this 11th day of March, 2015

Mary Marie Clendenin
Notary Public

My commission expires 3/22/2015

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MARY MARIE CLENDENIN
COLUMBIA GAS TRANSMISSION CORPORATION
RR 2 BOX 138
SANDYVILLE, WV 25275
My commission expires March 22, 2015

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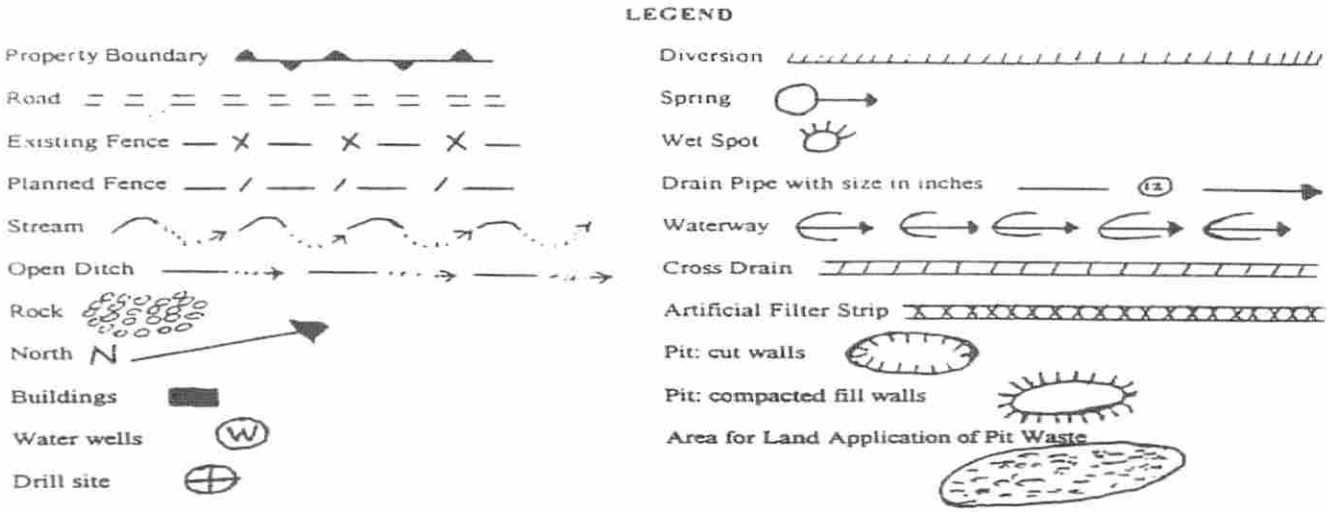
Form WW-9

Operator's Well No. Terra Alta 7387



Proposed Revegetation Treatment: Acres Disturbed < 0.5 Prevegetation pH 6

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
Orchard Grass	20	Orchard Grass	20
Ledino Clover	10	Ledino Clover	10
Annual Rye	20	Annual Rye	20

Attach:
Drawing(s) of road, location,pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [signature]

Comments:

Title: Inspector Date: 3/13/2015

Field Reviewed? (X) Yes ( ) No

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Google earth

feet 500
meters 100

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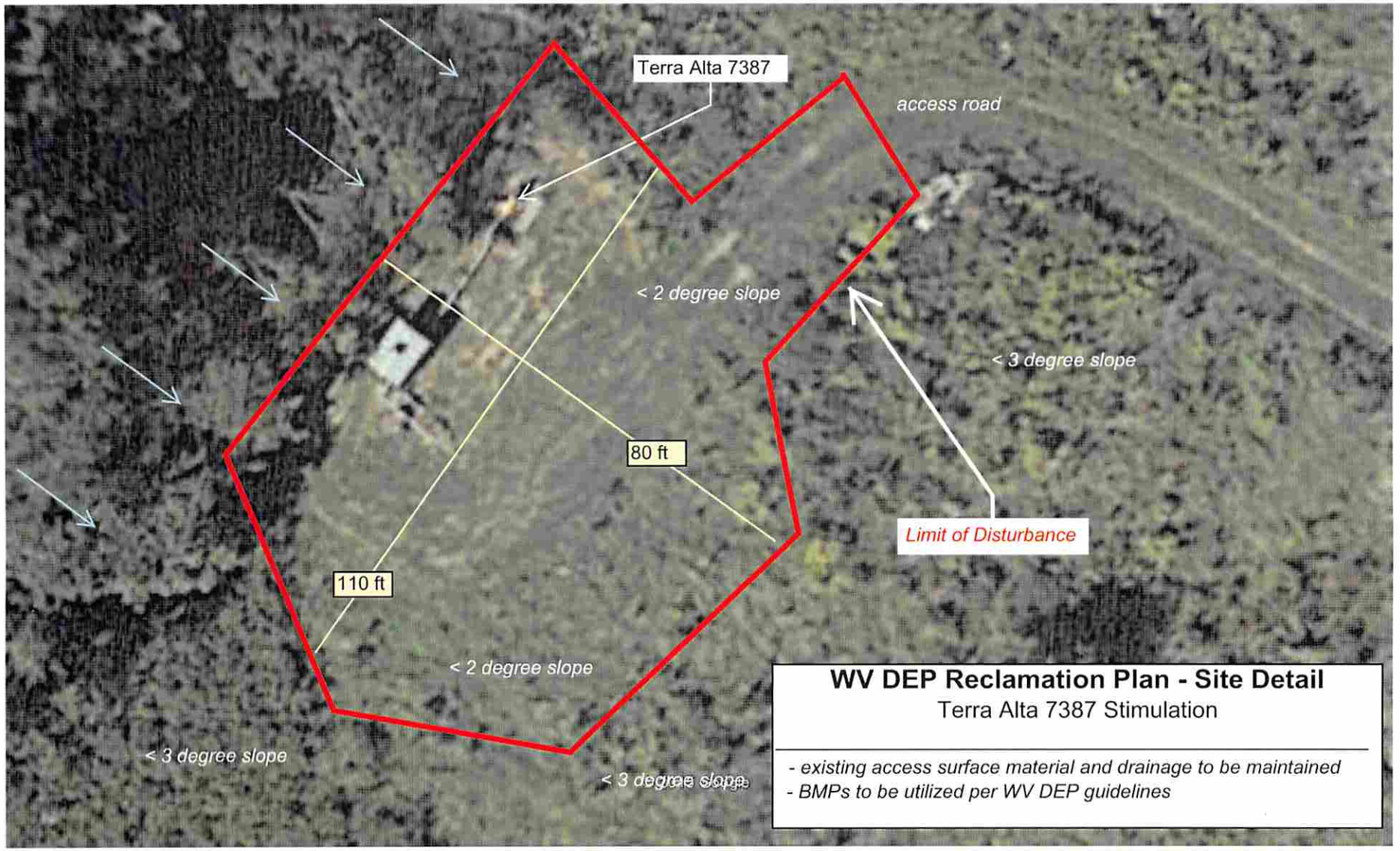
MAR 30 2016

WL00007



Google earth

Received
Office of Oil & Gas
MAR 30 2015

700007W

770007W

(VALLEY POINT)

mytopo

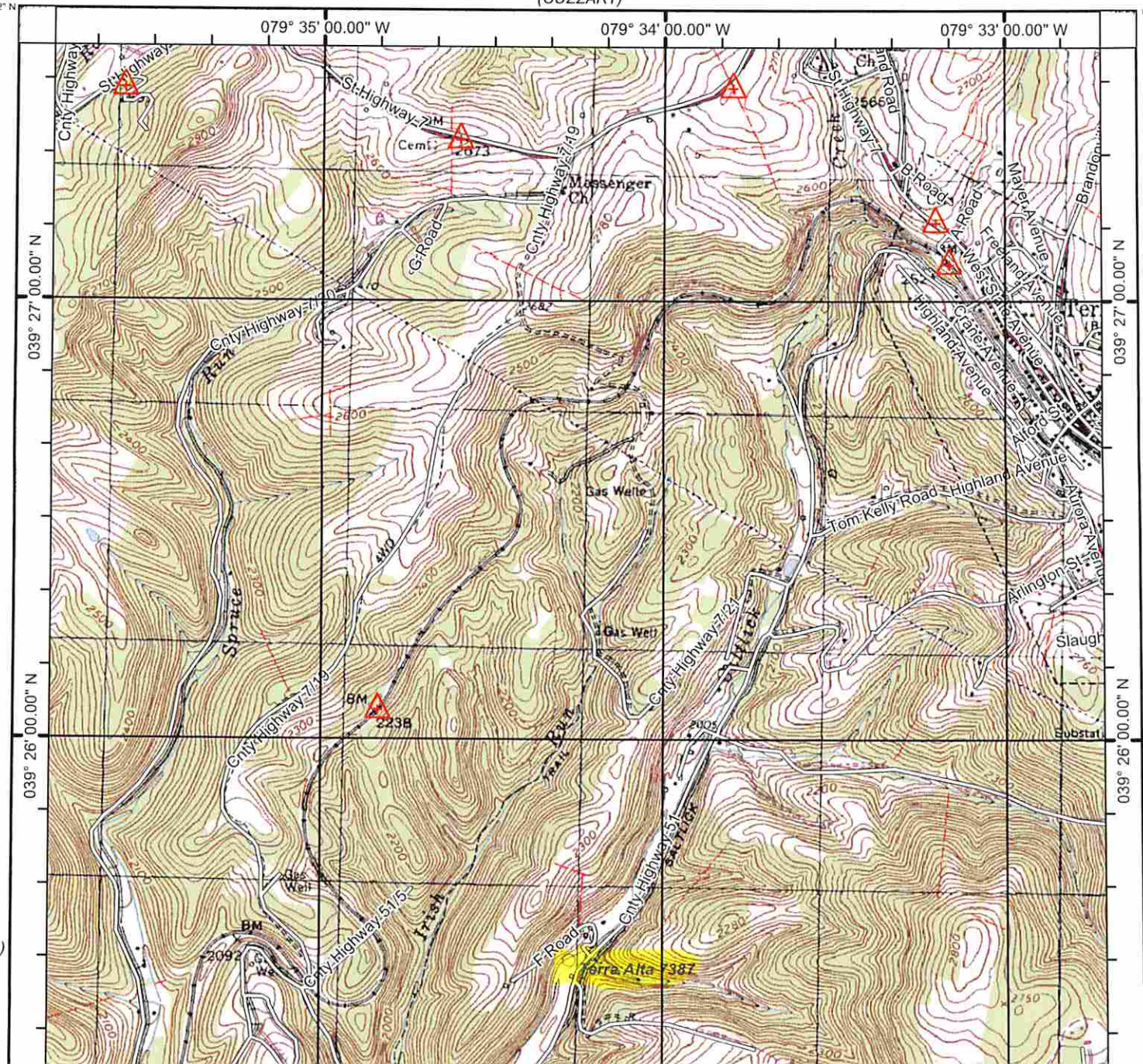
TERRA ALTA QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(SANG RUN)

079° 35' 47.95" W
039° 27' 34.92" N

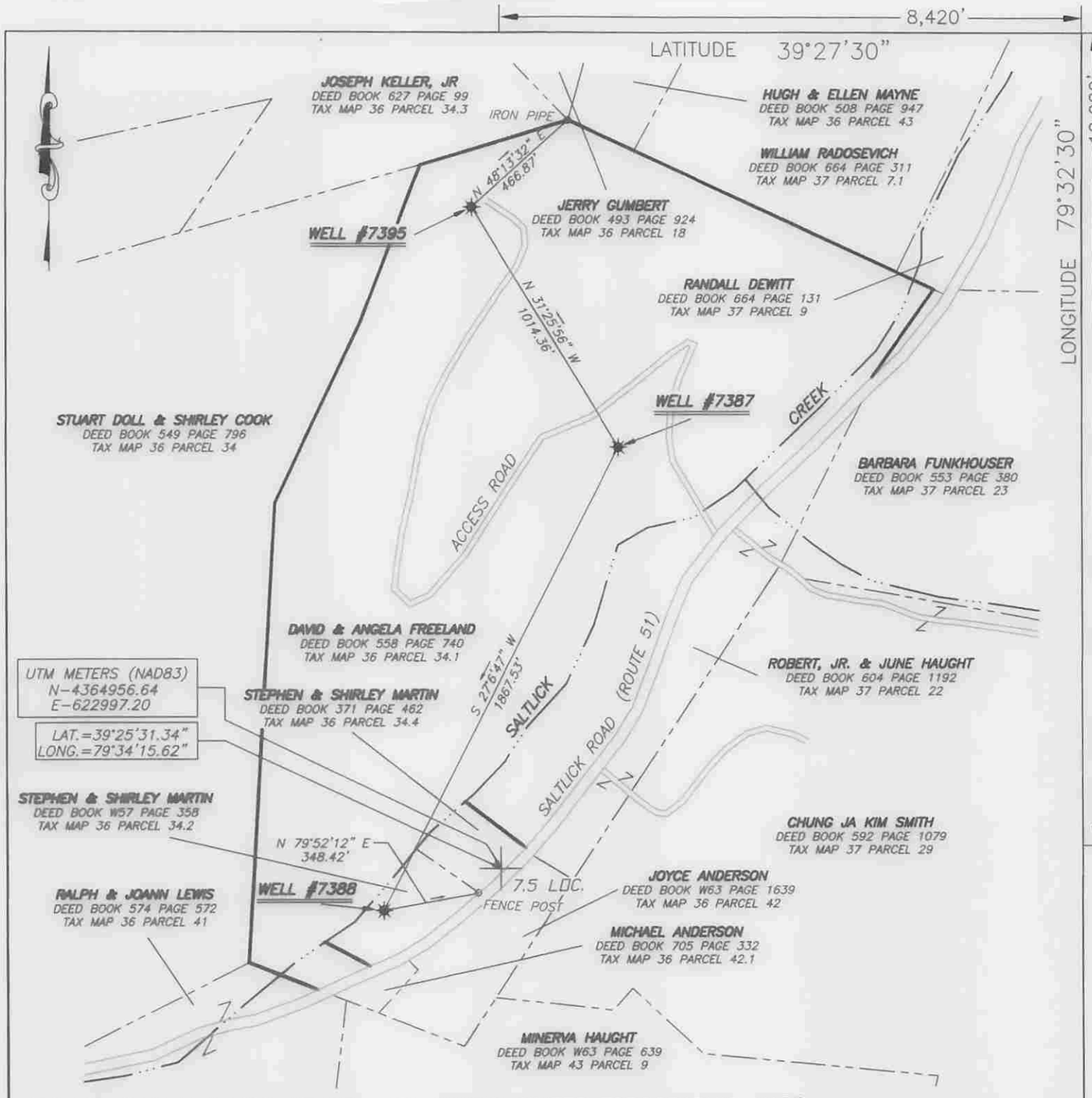
(CUZZART)

079° 32' 42.53" W
039° 27' 34.92" N



(KINGWOOD)

(OAKLAND)



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

FILE No 14-100-034
DRAWING No. 14-100-034
SCALE 1"=500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION TRIMBLE PRO XH GPS UNIT

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.

(SIGNED) _____
RICHARD J. PRINE PS #851

RICHARD J. PRINE LICENSED No. 851 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
NITRO, WV

DATE FEBRUARY 23 20 15
OPERATOR'S WELL No. 7387
API WELL No.
47 — 077 — 00007W
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1928 WATER SHED SALTLICK CREEK
DISTRICT PORTLAND COUNTY PRESTON
QUADRANGLE TERRA ALTA

SURFACE OWNER DAVID A. & ANGELA J. FREELAND ACREAGE 98.07
OIL & GAS ROYALTY OWNER J. PAUL MARTIN, ET UX LEASE ACREAGE 121
LEASE No. 90335

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION CHERT & ORISKANY ESTIMATED DEPTH 5465
WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS P.O. BOX 1273, CHARLESTON W.V. 25325-1273

FORM IV-6 (8-78)