



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

March 17, 2016

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-10300116, 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: 3525
Farm Name: BLAKE, FREEMAN
API Well Number: 47-10300116
Permit Type: Re-Work
Date Issued: 03/17/2016

Promoting a healthy environment.

03/18/2016

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, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Ck#5114039
\$6000⁰⁰

WW - 2B
(Rev. 8/10)

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

07 681

1) Well Operator: Columbia Gas Transmission, LLC
Operator ID: 307032 County: Wetzel District: Proctor Quadrangle: Wileyville, WV

2) Operator's Well Number: Victory A 3525 3) Elevation: 1314 ft

4) Well Type: (a) Oil _____ or Gas X
(b) If Gas: Production _____ / Underground Storage X
Deep _____ / Shallow X

5) Proposed Target Formation(s): Maxton Proposed Target Depth: 2075 - 2116

6) Proposed Total Depth: 2140 Feet Formation at Proposed Total Depth: Maxton

7) Approximate fresh water strata depths: 110' & 1092 (as reported by driller in 1936)

8) Approximate salt water depths: 1835' & 1989' (as reported by driller in 1936)

9) Approximate coal seam depths: 1001 - 05' (Mapletown) & 1092 - 1100' (Pittsburgh)

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

DM14
2-23-16

11) Does land contain coal seams tributary to active mine? yes

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)

Kill well. CBL. Drill deeper to 2140'. Run new string of 4-1/2" csg and cement. CBL. Perforate and fracture stimulate.

13) **CASING AND TUBING PROGRAM**

* existing tubulars and cement except for 4-1/2" casing

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13.375			16	16	none
Fresh Water	10.75		35.75	484	484	45 sx
Coal	8.625		24	1453	1453	300 sx
Intermediate	7		20	2070	2070	200 sx
Production	4.5	J-55	11.6	2140	2140	100 sx
Tubing						
Liners						

Packers: Kind: _____
Sizes: _____
Depths Set _____

Office of Oil and Gas
FEB 26 2016
WV Department of Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

LITTLETON QUADRANGLE

WELL RECORD

Permit No. WET-116-Redrill

Oil or Gas Well storage
(KIND)

Company The Manufacturers Light & Heat Company
Address Pittsburgh, Pennsylvania
Farm Freeman Blake Acres 93
Location (waters) _____
Well No. 1, Sr-3525 Elev. 1270'
District Proctor County Wetzel
The surface of tract is owned in fee by Freeman Blake
Bebee, W. Va. Address _____
Mineral rights are owned by M. J. & H. Co.
Address Pittsburgh, Pa.
Drilling commenced September 13, 1952
Drilling completed October 17, 1952
Date Shot _____ From _____ To _____
With _____
Open Flow 7 /10ths Water in 1 Inch
_____ /10ths Merc. in _____ Inch
Volume 65,000 - Maxon Sand Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ lbs. 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
14			
18			
10	<u>487' 2"</u>	<u>487' 2"</u>	Size of
<u>8-5/8"</u>	<u>1463' 10"</u>	<u>1463' 10"</u>	Depth set
<u>6"</u>	<u>2093' 1"</u>	<u>2093' 1"</u>	
<u>5 3/16</u>			Perf. top
<u>2</u>			Perf. bottom
<u>2</u>			Perf. top
Linera Used			Perf. bottom

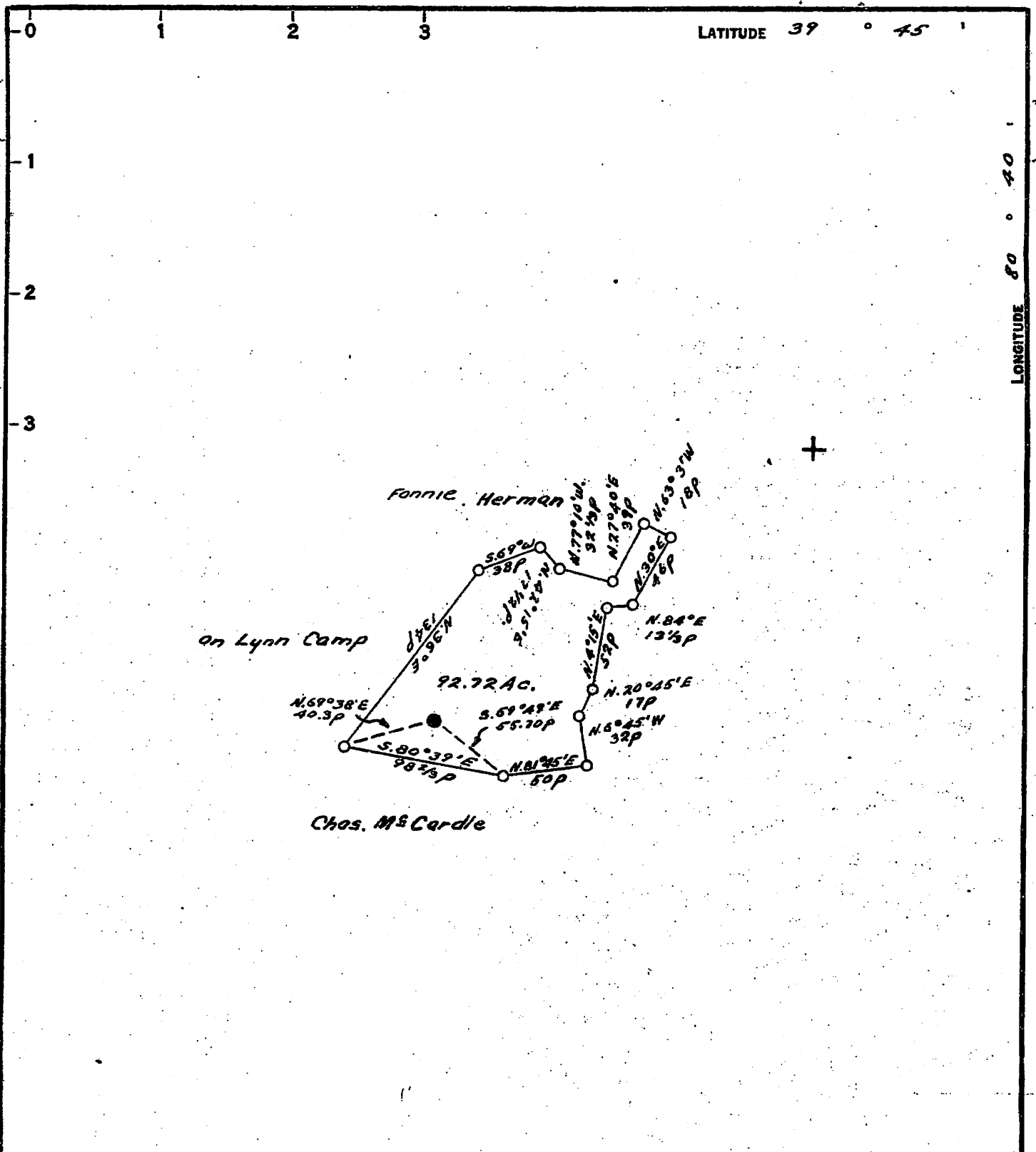
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Cleaning out 13" hole			0	484			This well had previously been Abd reconditioned for Victory Storage Field. Set 10" casing at 484' Cemented with 45 bags cement.
Cleaning out 10" hole			484	1453			Set 8-5/8" casing at 1453' cemented with 300 bags cement.
Cleaning out 8" hole			1453	2090			Set 6-5/8" casing at 2090'. Cemented with 200 bags cement.
Top of Maxon Sand			2077				Run block at top of well and cemented same with 75 bags cement.
Gas			2110	2114			
Bottom of Maxon Sand				2119			
Total Depth				2116 1/2			This well treated with 1/2 drum of acid. no results
Set 6" lead plug			2116 1/2	2119			Schlumberger measurement Completion slip shows T. D. 2132'



FEB 23 2015
03/18/2016



COAL OWNED BY J.W. Wellman & J.F. Miller
 Storage
 NEW LOCATION
 DRILL DEEPER
 ABANDONMENT

COMPANY The Manufacturers Light & Heat
 ADDRESS 800 Union Trust Bldg. Pgh. Pa.
 FARM Freeman Blake
 TRACT _____ ACRES 93 LEASE No. 26375
 WELL (FARM) No. 1 SERIAL No. 3525
 ELEVATION (SPIRIT LEVEL) 1270.0'
 QUADRANGLE Littleton
 COUNTY Wetzel DISTRICT Proctor
 ENGINEER A.J. Russell
 ENGINEER'S REGISTRATION No. _____
 FILE No. _____ DRAWING No. Y43-797
 DATE Dec. 3, 1952 SCALE 1" = 1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE No. Wet - 116 - REDRILL 03/18/2016

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 — DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

The Manufacturers Light & Heat Company
Company

Division 4

Record of well No. 3525 on Freeman Blake Farm 93 Acres

Victory Storage Reader, W. Va. Field Proctor District Wetzels County W. Va. State

Rig Commenced Sept. 10, 1952, Completed Sept. 13, 1952

Drilling Commenced Sept. 13, 1952, Completed Oct. 17, 1952

Contractor Rawe Drilling Co. Address New Martinsville, W. Va.

Driller's Name A. B. Spencer - Curt Gazart - E. D. Rawe

CASING AND TUBING RECORD

	Conductor	13"	10"	8 5/8"	7"	6 5/8"	5 3/16"	4"	3"		
Used in Drlg.	13"x14'		487'2"	1465'16"		2093'1"	(Threads measured on)				
Left in well	13"x14'		487'2"	1465'14"		2093'1"					

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours
						1	2	3	4	5			
	7.0	Water	1"	65.000	Maxon	2 1/2	4	5	6	7		37	48

TOTAL INITIAL OPEN FLOW

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
				This well had previous been abandoned
				Reconditioned for Victory Storage Field
Clg. out 13" hole	0	484		Set 10" casing at 484'. Cemented with 45 bags cement.
Clg. out 10" hole	484	1453		Set 8 5/8" casing at 1453'. Cemented with 300 bags cement.
Clg. out 8" hole	1453	2090		Set 6 5/8" casing at 2090'. Cemented with 200 bags cement.
Top of Maxon Sand	2077			run block at top of well and cemented cave
Gas	2119	2114		with 75 bags cement
Bottom of Maxon Sand		2119		
Total Depth		2116 1/2		This well treated with 1/2 drum of acid.
				no results.
Set 6" Lead Plug	2116 1/2	2119		Schlumberger Meas.

03/18/2016

Examined above information and measurements and found to be correct by

Examined and Approved by

Contractor

Field Superintendent

NOTE-The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

1030046W

The Manufacturers Light & Heat Company

Division Four

Record of Well No. 3525 on Freeman Blake Farm 93 Acres
 Proctor Field Proctor District ~~Proctor~~ Wetzel County W. Va. State ✓
 Rig Commenced May 14th 1936 19 , Completed May 9th 1936 19
 Drilling Commenced May 21st 1936 19 , Completed June 30th 1936 19
 Cost per Foot 1.75 Contractor T.E. Little Address New Matamoras, Ohio
 Drillers' Names Rector Craig, Ott Haldren.

BOILER			ENGINE			RIG			
H.P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Boiler
							Old	81'	Company men

CONDUCTOR AND CASING USED IN DRILLING

Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 3/4 inch	5 3/4 inch	5 3/4 inch	5 inch	4 inch		
16'		484'-1"	1466'-9"	2093'-70"							

CONDUCTOR AND CASING LEFT IN WELL

Conductor	13 inch	10 inch	8 1/2 inch	6 3/4 inch	6 3/4 inch	5 3/4 inch	5 3/4 inch	5 inch	4 inch	3 inch	
16'		484'-1"	1466'-9"	2093'-70"							

OIL WELL

GAS WELL

When Shot	Size of Torpedo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure
									19#	635#

Initial Open Flow Production _____ Cubic Feet Per 24 Hours Shut In Pressure _____ Cubic Feet Per 24 Hours

FORMATION	Top	Bottom	Thickness	REMARKS
Clay	0	12	12	WATER @ 110' - 3 bailers per hr.
Rock	12	20	8	
Red mud	20	40	20	
Amix shale	40	90	50	
Sand	90	110	20	
Red rock	110	170	60	
Sand	170	200	30	
Slate	200	250	50	
Stone	250	275	25	
Slate	275	300	25	
Lime	300	350	50	
Red rock	350	400	50	
Slate & shells	400	440	40	
Slate	440	493	53	
Lime	493	550	57	
Red rock	550	570	20	
Lime	570	600	30	
Slate	600	620	20	
Lime	620	640	20	
Red rock	640	650	10	
Shale	650	685	35	
Lime	685	705	20	
Slate	705	715	10	
Lime	715	735	20	
Sand	735	780	45	
Slate	780	785	5	
Lime	785	805	20	
Slate	805	832	27	

APPROVED
 HARRY STONE
 SUPERINTENDENT
 FEB 26 2016
 03/18/2016

Examined above information and measurements and found to be correct by T. E. Little Contractor
 Examined and approved by _____ Superintendent of Co.

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany, when presented for payment of the bill for drilling.
 All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.
 Make no memoranda of boiler and engine if owned by contractor.

10300116W

Company

Division

Record of Well No. _____ on _____ Farm _____ Acres _____
 Field _____ District _____ County _____ State _____
 Township _____
 Rig Commenced _____ 19 _____ Completed _____ 19
 Drilling Commenced _____ 19 _____ Completed _____ 19
 Cost per Foot _____ Contractor _____ Address _____
 Drillers' Names _____

BOILER			ENGINE			RIG			
H.P.	No.	Name of Maker	H. P.	No.	Name of Maker	New	Old	Height	Name of Boiler

CONDUCTOR AND CASING USED IN DRILLING

Conductor	13 inch	10 inch	8 1/4 inch	6 3/4 inch	6 1/4 inch	5 3/4 inch	5 1/2 inch	5 inch	4 inch		

CONDUCTOR AND CASING LEFT IN WELL

Conductor	13 inch	10 inch	8 1/4 inch	6 3/4 inch	6 1/4 inch	5 3/4 inch	5 1/2 inch	5 inch	4 inch	3 inch	

OIL WELL

GAS WELL

When Shot	Size of Toredpo	1st Day's Production	Tubing	Rods	Tanks	Size of Packer	Depth Set	Packed with	1st Minute Pressure	Rock Pressure

Initial Open Flow Production _____ Cubic Feet Per 24 Hours Shut in Pressure _____ Cubic Feet Per 24 Hours

FORMATION	Top	Bottom	Thickness	REMARKS
Lime	1375	1390	15	<p>SHEET # 3</p> <p><i>Harry Moore</i></p> <p>Water @ 1835 = 6 Bailers per hr.</p> <p>Water @ 1989 = 8 Bailers per hr.</p> <p>Gas @ 2081 Steels line, 10/10 Mercury in 2nd</p>
Slate	1390	1400	10	
Lime	1400	1420	20	
Shale	1420	1440	20	
Lime	1440	1480	40	
Slate	1480	1535	55	
Sand	1535	1545	10	
Shale	1545	1560	15	
Red rock	1560	1570	10	
Big Dunkard sand	1570	1600	30	
Slate	1600	1615	15	
Lime	1615	1625	10	
Lime & shale	1625	1650	25	
Gas sand	1650	1730	80	
Slate	1730	1735	5	
Lime	1735	1750	15	
Sand	1750	1830	80	
Slate	1830	1835	5	
Salt sand	1835	1860	25	
Slate	1860	1870	10	
Second salt sand	1870	1910	40	
Slate	1910	1945	35	
Lime	1945	1950	5	
Third salt sand	1950	2025	75	
Slate	2025	2035	10	
Lime	2035	2040	5	
Shale	2040	2066	26	
Maxon sand	2066	2095	29	
Total depth			2095	

RECEIVED
 Office of Oil and Gas
 FEB 10 2016
 03/18/2016

Contractor _____ Examined and approved by _____ Superintendent of Co.
 NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the Well, and accompany, when presented for payment of the bill for drilling.
 All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or Water was found, the quantity of same, the quality of the sand, and thickness of pay.
 Make no memoranda of boiler and engine if owned by contractor.

THE MANUFACTURERS LIGHT AND HEAT COMPANY

GENERAL OFFICE

PITTSBURGH, PENNSYLVANIA

Reader, W. Va.
April, 24, 1944.

BRANCH OFFICE

MANNER IN WHICH WELL # 3525 WAS PLUGGED ON THE
FREEMAN BLAKE FARM, BY WILLIAM C. MOFFITT & RALPH MONTGOMERY.

Total Depth	2095
Clay	2095 - 2066
Wood plug	2066 - 2063
Cement	2063 - 2053
Bridged at	1735
Clay	1735 - 1650
Wood plug	1650 - 1647
Clay	1647 - 1570
Wood plug	1570 - 1567
Bridged at	1158
Cement	1158 - 1080
Bridged at	1005
Cement	1005 - 981
Clay	981 - 481
Clay	481 to surface

Monument erected as per rule # 18,
Plugging completed, March 18, 1944.

RECEIVED
Office of Oil and Gas
FEB 26 2015
WV Department of
Environment and Conservation

10300116 W

WW-2B1
(5-12)

Well No. Victory A 3525

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contractor chosen to collect sample.

Certified Laboratory Name * not applicable - existing underground natural gas storage well
Sampling Contractor _____

Well Operator _____
Address _____

Telephone _____

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

RECEIVED
Office of Oil and Gas

FEB 23 2016

West Virginia Department of
Environmental Protection

03/18/2016

WW-2A1
(Rev. 1/11)

Operator's Well Number Victory A 3525

**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
Albert R Blake & Kenneth L Blake	Columbia Gas Transmission, LLC	Storage lease 3026375	73 / 610

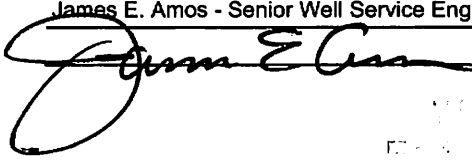
**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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:
By: Its:

Columbia Gas Transmission, LLC Office of Oil and Gas
 James E. Amos - Senior Well Service Engineer

 FEB 23 2016

03/18/2016

WW-9
(2/15)

API Number 47 - 103 - 00116

Operator's Well No. Victory A 3525

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Columbia Gas Transmission, LLC OP Code 307032

Watershed (HUC 10) Blake Fork Quadrangle Wileyville, WV

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

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 34-105-23619, 34-121-22459, 34-059-20965)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Rumpke Beech Hollow Landfill, Wellston, OH)

Will closed loop system be used? If so, describe: yes - steel lines to steel portable tank

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

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

Additives to be used in drilling medium? biocide, starch, polymer

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

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

-Landfill or offsite name/permit number? Rumpke Beech Hollow Landfill, Wellston, OH

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 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 *James E. Amos*

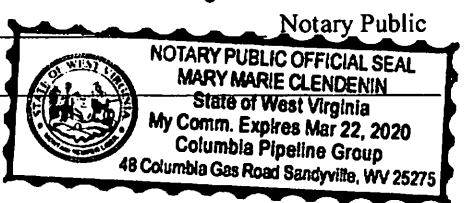
Company Official (Typed Name) James E. Amos

Company Official Title Senior Well Services Engineer - Columbia Gas Transmission, LLC

Subscribed and sworn before me this 17th day of February, 2016

Mary Marie Clendenin

My commission expires 3/22/2020



DMH
2-23-16

03/18/2016

Columbia Gas Transmission, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH 6

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-10

Fertilizer amount 600 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass and/or Tall Fescue	29	(if Tall Fescue is used, plant endophyte-free certified seed)	
Birdsfoot Trefoil (Empire)	9	(legumes to be inoculated by manufacturer's recommendation)	
Annual Rye	12		

*** seed rate must be doubled for broadcast seeding**

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments:

Title: Oil & Gas Inspector

Date: 2-23-16

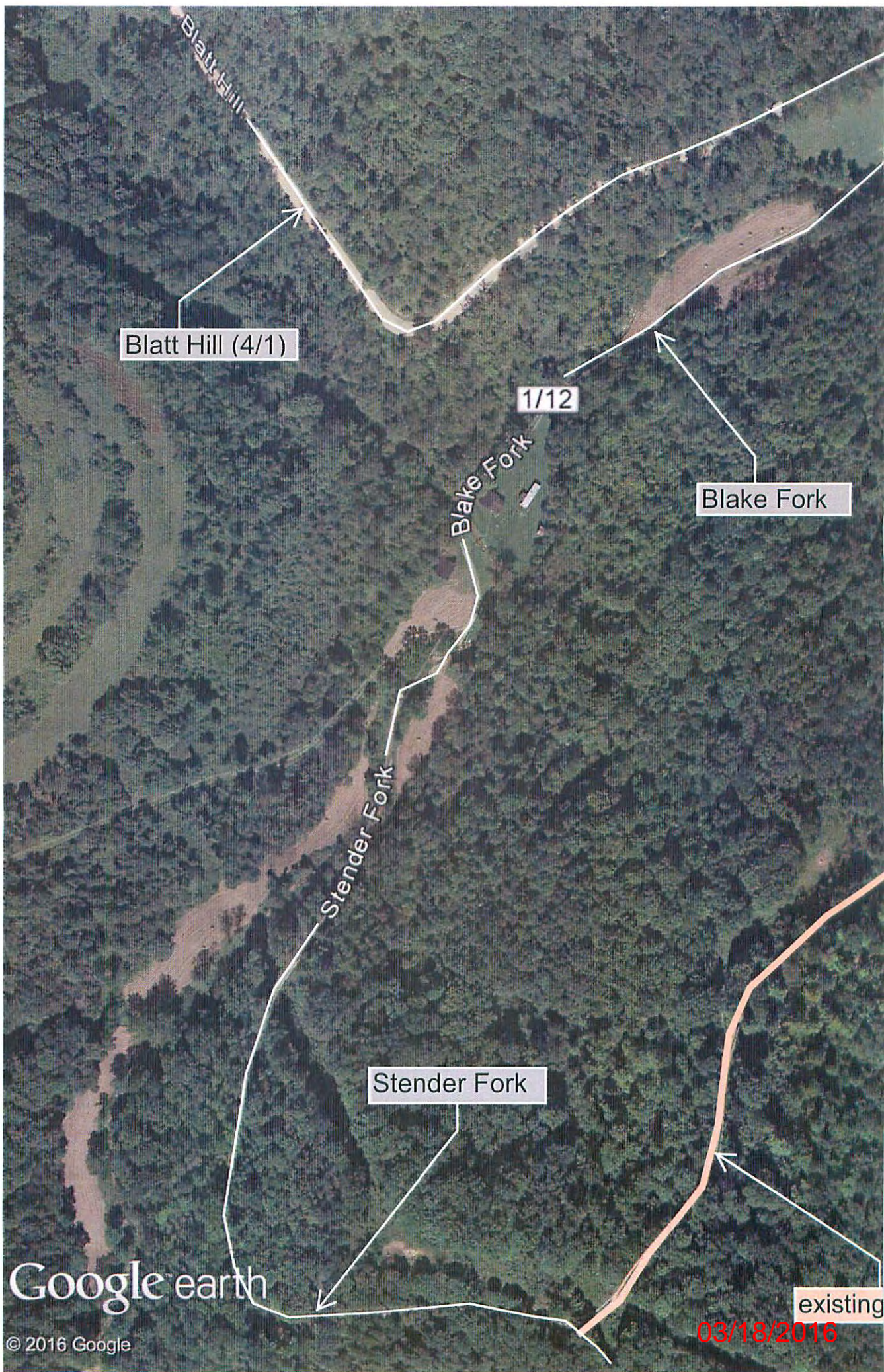
Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas

FEB 23 2016

VW Department of
Environmental Protection

03/18/2016



Blatt Hill (4/1)

1/12

Blake Fork

Stender Fork

existing

03/18/2016

Google earth

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Legend

- ⊙ Victory A - 03525
- 🔸 Victory A 3525 - Access Rd
- 📄 Victory A 3525 - LOD

Victory A 3525

WV DEP Reclamation Plan 1 of 2 - Access Road

- BMPs to be utilized per WV DEP guidelines
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and road surfacing material to be applied as needed

well site

Victory A - 03525

DMH
2-23-16

lease road

1000 ft



03/18/2016

Victory A 3525

WV DEP Reclamation Plan 2 of 2 - Site Detail

- BMPs and erosion control devices to be utilized per WV DEP guidelines and Columbia's WV Environmental Construction Standards
- Existing drainage, culverts, and road ditches to be maintained
- Minor grading and surfacing material to be applied as needed



Google earth

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03/18/2016

Legend

- ⊙ Victory A - 03525
- ▭ Victory A 3525 - LOD

Limit of Proposed Disturbance on existing well site

Victory A - 03525

< 5 degree slope

200 ft

100 ft



DmH
228/16

03/18/2016

10300 116 W

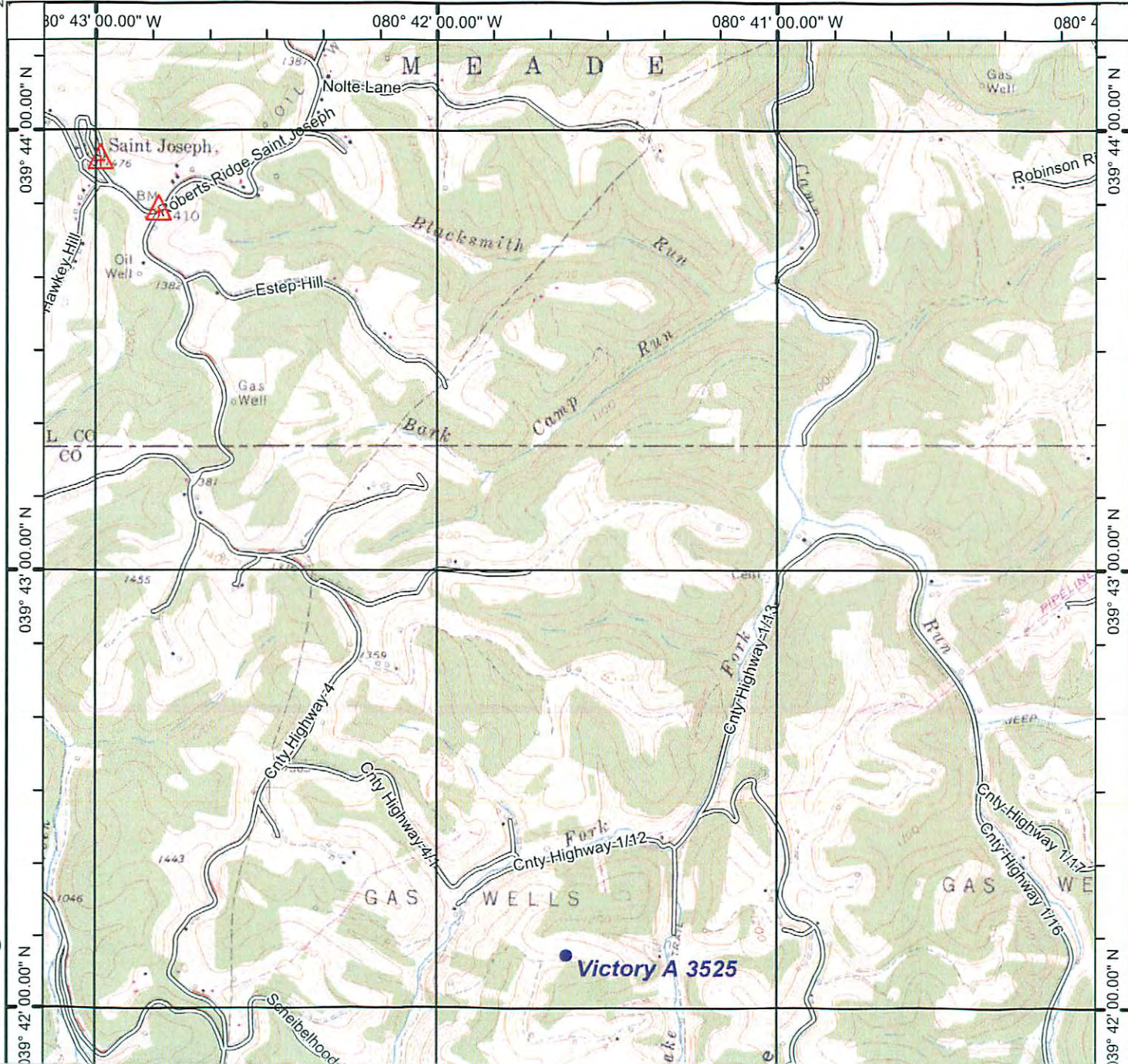
(POWHATAN POINT)



WILEYVILLE QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

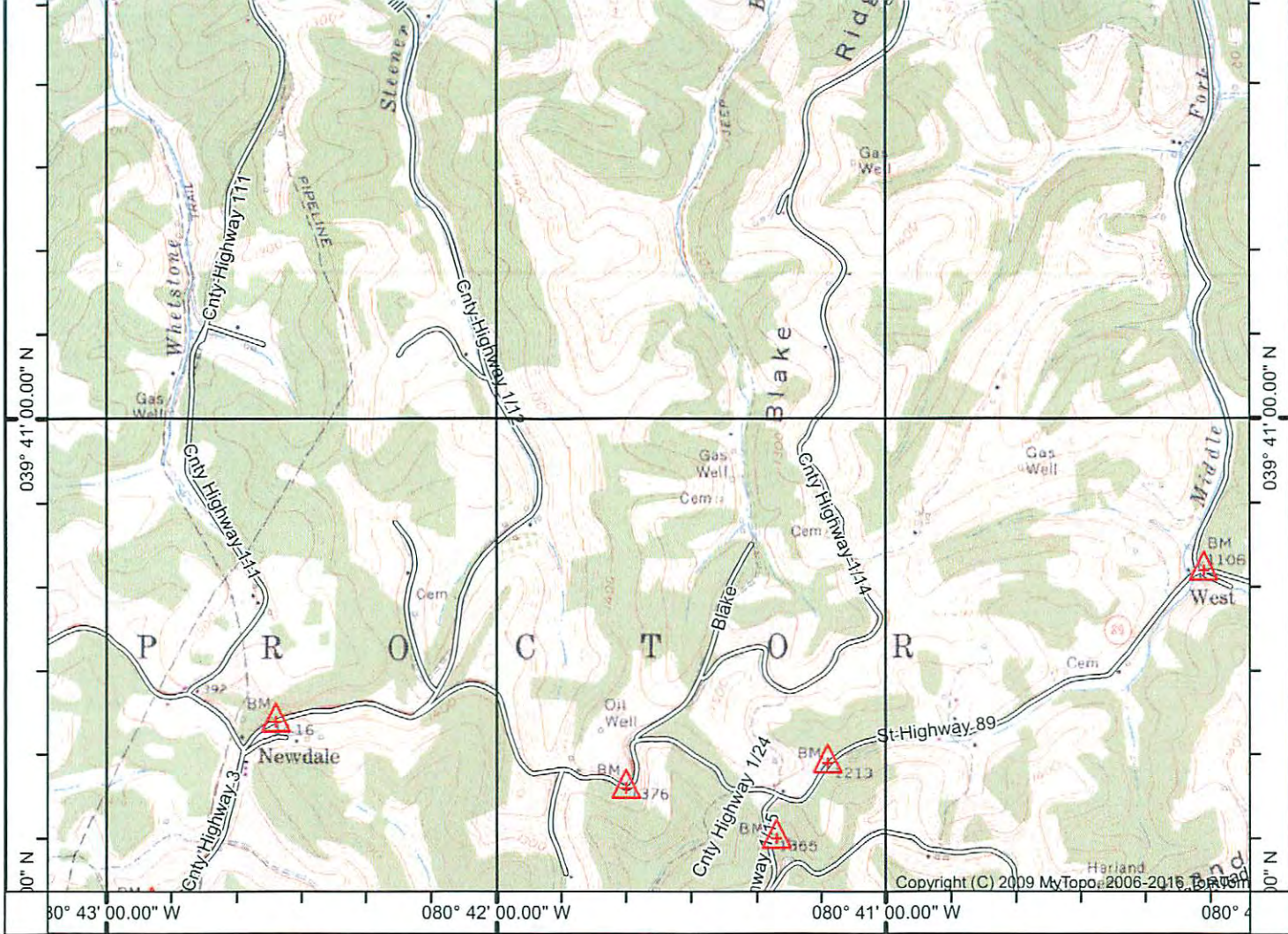
(CAMERON)

080° 43' 09.62" W (GLEN EASTON) 080° 40' 03.46" W
039° 44' 12.53" N 039° 44' 00.00" N 039° 43' 00.00" N 039° 42' 00.00" N



(NEW MARTINSVILLE)

(LITTLETON)



039° 40' 03.41" N 080° 43' 00.00" W 080° 42' 00.00" W 080° 41' 00.00" W 080° 40' 03.41" N
 039° 41' 00.00" N 039° 41' 00.00" N
 080° 43' 09.82" W 080° 40' 03.46" W

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Printed Fri Jan 08, 2016

(PORTERS FALLS)

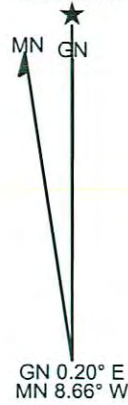
(BIG RUN)

Produced by MyTopo Terrain Navigator
 Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)
 Polyconic Projection

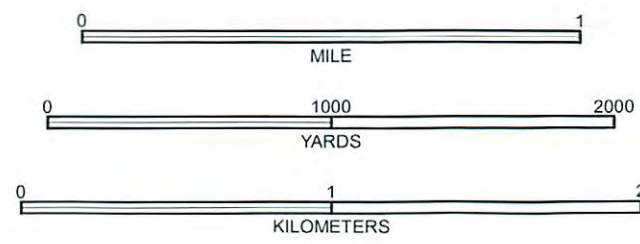
To place on the predicted North American 1927 move the
 projection lines 9M N and 16M E

Declination



GN 0.20° E
 MN 8.66° W

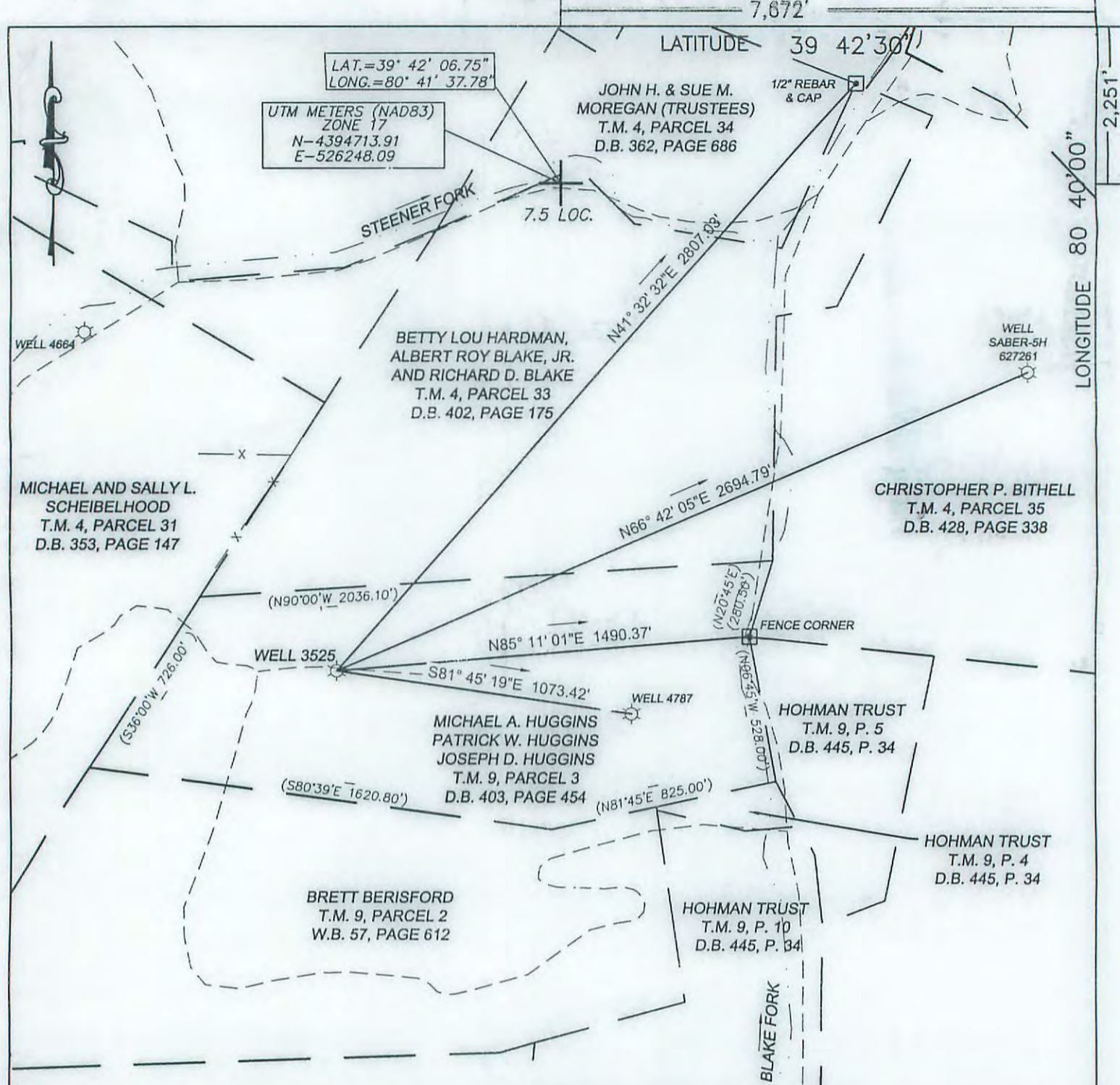
(PINE GROVE)
 SCALE 1:24000



CONTOUR INTERVAL 20 FEET
 NATIONAL GEODETIC VERTICAL DATUM 1929

DH
 2-23-16

WILEYVILLE, WV
 1960



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

FILE No. 1601-2345-001-008
 DRAWING No. 1601-2345-008
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE R8-3 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) *Robert F. Thaw*
 ROBERT F. THAW PS #965



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

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

LOCATION: ELEVATION 1314 WATER SHED BLAKE FORK
 DISTRICT PROCTOR COUNTY WETZEL
 QUADRANGLE WILEYVILLE, WV

SURFACE OWNER MICHAEL D. HUGGINS, ET. AL. ACREAGE 40
 OIL & GAS ROYALTY OWNER ALBERT R. & KENNETH BLAKE LEASE ACREAGE 92.72
 LEASE No. 3026375

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

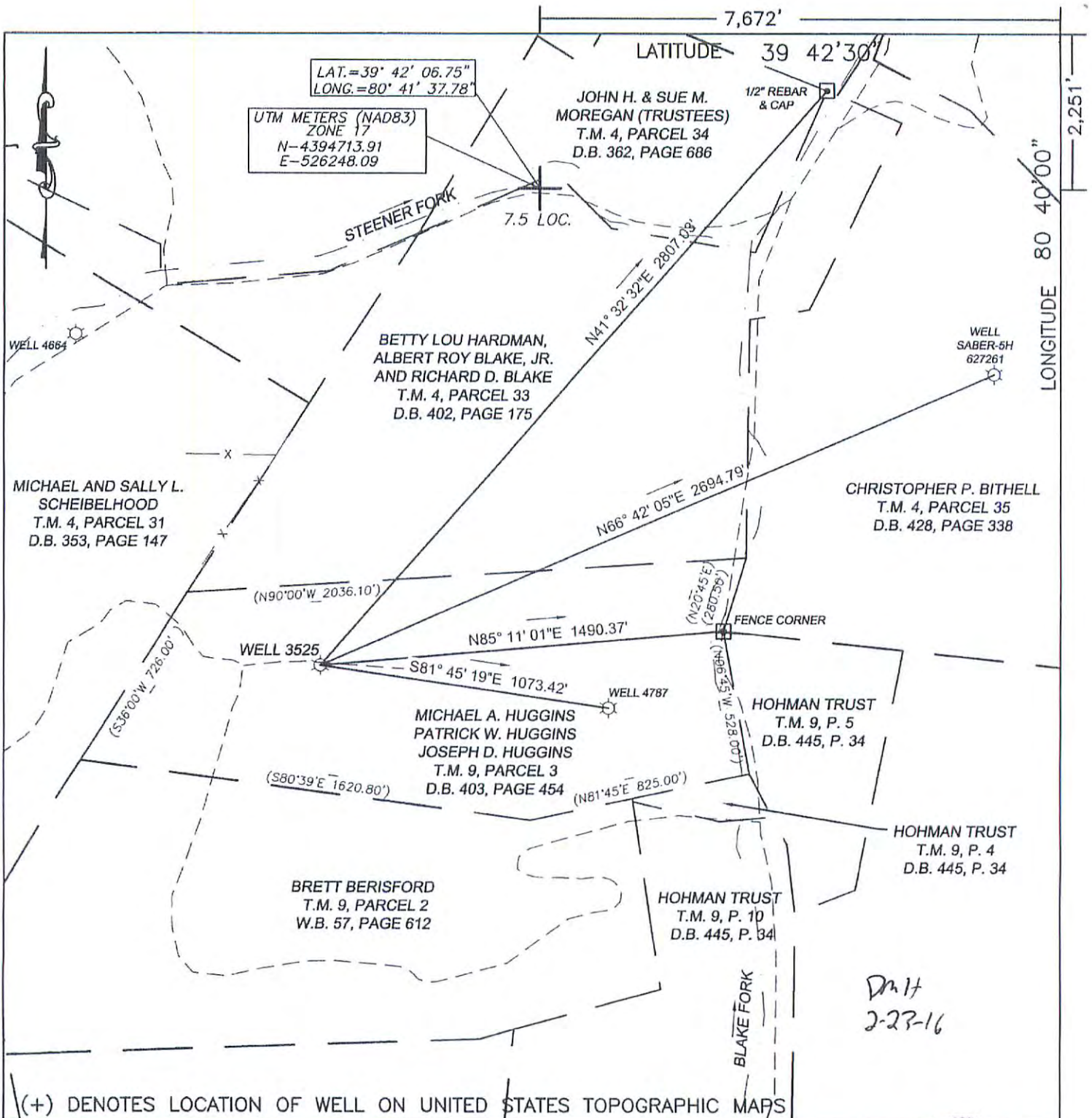
PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION MAXTON ESTIMATED DEPTH 2116

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

03/18/2016

FORM IV-6 (8-78)



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

FILE No 1601-2345-001-008
 DRAWING No. 1601-2345-008
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE R8-3
 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) *R. F. Thaw*
 ROBERT F. THAW PS #965



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

NITRO, WV

DATE FEBRUARY 1 20 16
 OPERATOR'S WELL No. 3525
 API WELL No. 47 103 - 00116 w

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

LOCATION: ELEVATION 1314 WATER SHED BLAKE FORK
 DISTRICT PROCTOR COUNTY WETZEL
 QUADRANGLE WILEVILLE, WV

SURFACE OWNER MICHAEL D. HUGGINS, ET. AL. ACREAGE 40 ✓
 OIL & GAS ROYALTY OWNER ALBERT R. & KENNETH BLAKE LEASE ACREAGE 92.72
 LEASE No. 3026375

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

TARGET FORMATION MAXTON ESTIMATED DEPTH 2116
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON W.V.
25325-1273 25325-1273

FORM IV-6 (8-78)

03/18/2016