

UTM METERS (NAD83)
 N=4354885.38
 E=618717.48

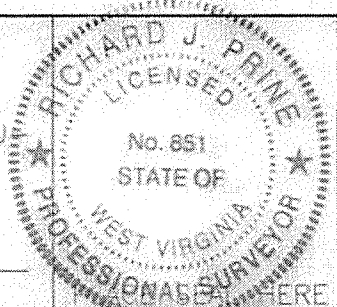
LAT. = 39°20'07"
 LONG. = 79°37'21"

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

FILE No. 14-100-005
 DRAWING No. 14-100-005
 SCALE 1"=400'
 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) [Signature]
 RICHARD J. PRINE PS #851



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



DATE MARCH 28 20 14
 OPERATOR'S WELL No. 7535
 API WELL No. 47 077 - 00164

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2607 WATER SHED MADISON RUN
 DISTRICT UNION COUNTY PRESTON
 QUADRANGLE AURORA

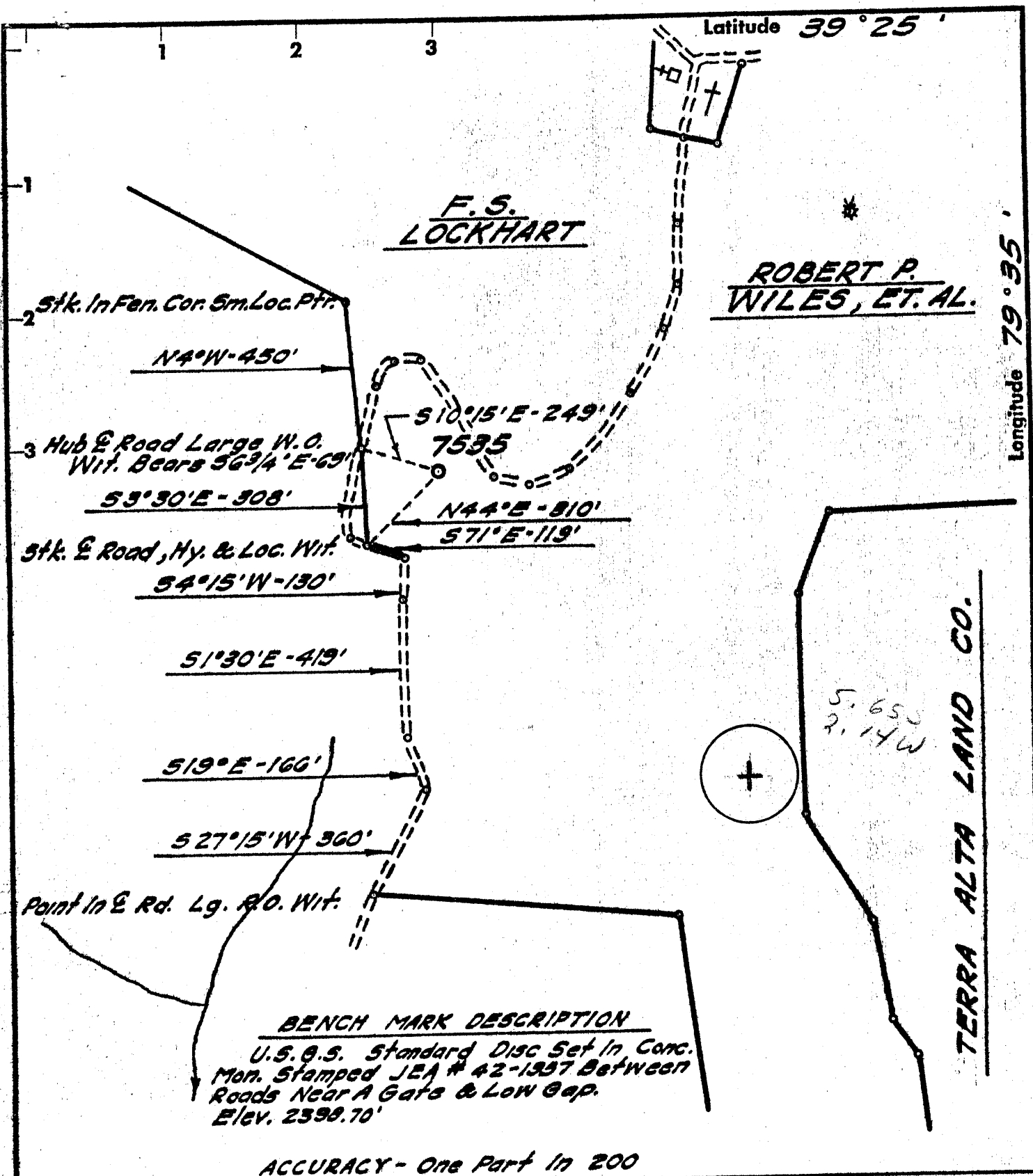
SURFACE OWNER ANITA FLEMING ACREAGE 36.84
 OIL & GAS ROYALTY OWNER ROBERT P. WILES, et al LEASE ACREAGE 150
 LEASE No. 1091115

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 6582'
 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

05/06/2014

FORM IV-6 (8-78)



Fracture Before 6/5/29 <input type="checkbox"/>	I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia. The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.
New Location <input checked="" type="checkbox"/>	
Drill Deeper <input type="checkbox"/>	
Redrill <input type="checkbox"/>	
Abandonment <input type="checkbox"/>	

Company: COLUMBIA GAS TRANSMISSION CORP.

Address: CHARLESTON, W. VA.

Farm: ROBERT P. WILES, ET. AL.

Tract: _____ Acres 150 Lease No. A5-1115

Well (Farm) No. _____ Serial No. 7535

Elevation (Spirit Level) 2604.25'

Quadrangle KINGWOOD

County PRESTON District UNION

Engineer Arthur E. [Signature]
2890

Engineer's Registration No. 2890

File No. 170-127 Drawing No. _____

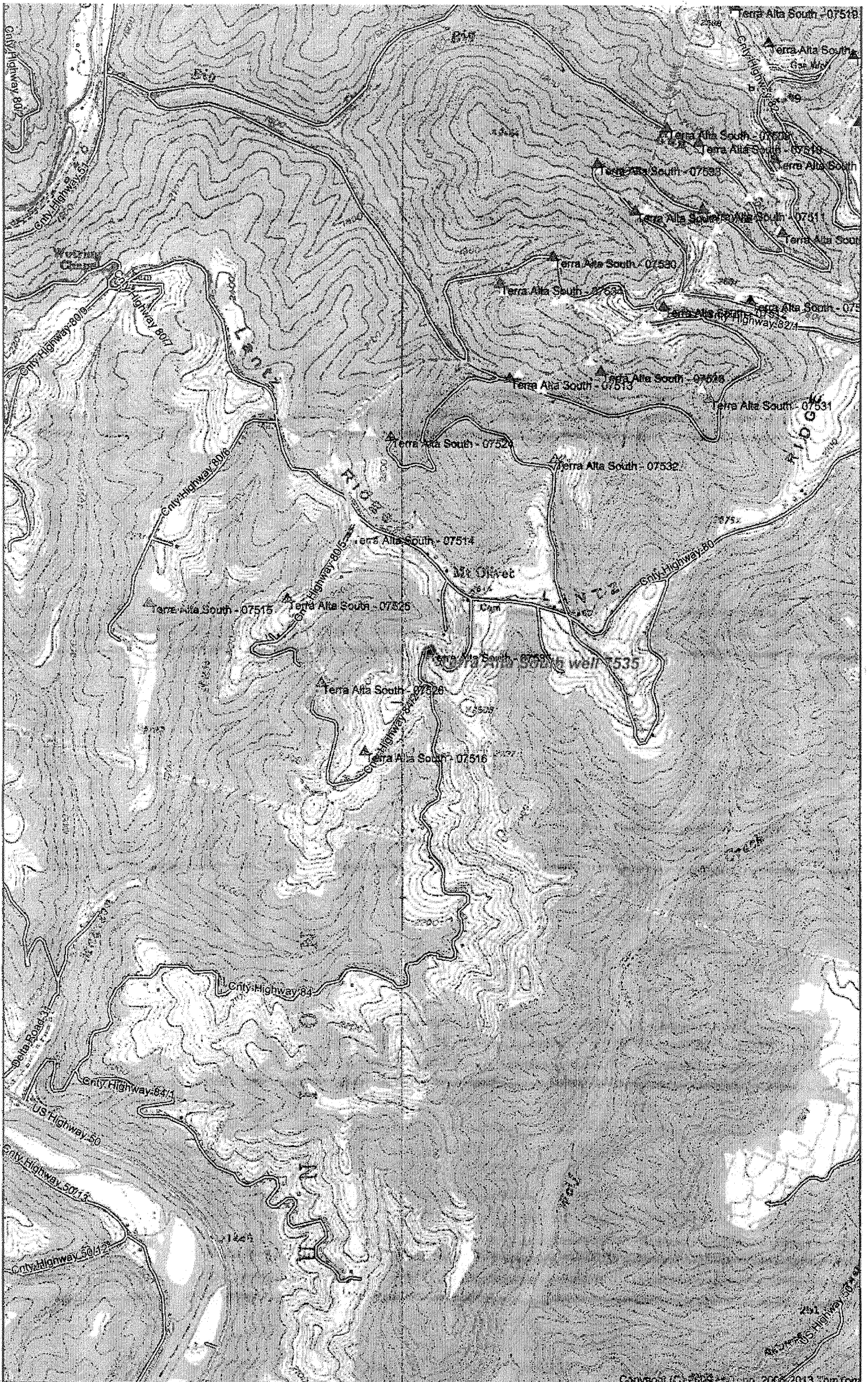
Date APR. 20, '71 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. PRES-164

+ 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.

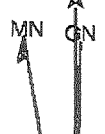
- Denotes one inch spaces on border line of original tracing.



2" N
 1' 30" 01.44" W
 Copyright © 2006-2013 TomTom
 Printed: Mon Jan 07, 2013
 079° 35' 4"

(LEAD MINE)
 SCALE 1:24000

Declination



05/06/2014

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 6/3/14
API #: 47-7700164 W

Farm name: Fleming, Anita Operator Well No.: 7535

LOCATION: Elevation: 2607 ft Quadrangle: Aurora

District: Union County: Preston
Latitude: 14.490 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 11.075 Feet West of 79 Deg. 35 Min. 00 Sec.

Company: Columbia Gas Transmission, LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
1700 MacCorkle Ave SE Charleston, WV 25325-1273	* no existing	casing altered		
Agent: Paul Amick				
Inspector: John Shockey				
Date Permit Issued: 5/15/14				
Date Well Work Commenced: 5/28/14				
Date Well Work Completed: 5/29/14				
Verbal Plugging: NA				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft):				
Total Measured Depth (ft): 6582 (existing)				
Fresh Water Depth (ft.): none rpt'd by driller in 1971				
Salt Water Depth (ft.): none rpt'd by driller in 1971				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): none rpt'd by driller in 1971				
Void(s) encountered (N/Y) Depth(s) none rpt'd				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Oriskany (natural gas storage) Pay zone depth (ft) 6408 - 6541
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

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

RECEIVED
Office of Oil & Gas

JUN 03 2014

WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Jam E Ama
Signature

6/2/14
Date

06/13/2014

Terra Alta (280) 9-0

77-00164W

Were core samples taken? Yes _____ No

Were cuttings caught during drilling? Yes _____ No NA

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list High Resolution MicroVertilog (pipe inspection)

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Killed well. Pulled tubing. Logged and installed mechanical bridge plug. Installed new wellhead.

Pulled bridge plug. Acid stimulated.

Acid treatment: 2000 gal 15% HCl acid, 150 bbls fresh water, Nitrogen. Avg rate = 4 bpm, ATP = 1790 psig

Plug Back Details Including Plug Type and Depth(s):

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>		

NA - no new borehole drilled



RECEIVED

JAN 26 1972

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

Rotary
Spudder
Cable Tools
Storage

Quadrangle Kingwood

Permit No. Pres. 164

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Columbia Gas Transmission Corporation
Address P. O. Box 1067, Elkins, West Virginia
Farm Robert P. Wiles Acres 150

Location (waters) Madison Run
Well No. X-76-S 7535 Elev. 2604

District Union County Preston

The surface of tract is owned in fee by
Address

Mineral rights are owned by
Address

Drilling commenced September 26, 1971

Drilling completed October 11, 1971

Date Shot From To

With

Open Flow 12 /10ths Water in 2 Inch

/10ths Merc. in Inch

Volume 146 M Cu. Ft.

Rock Pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) (See Reverse Side)

WELL FRACTURED (DETAILS)

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	Ground	Level	Kind of Packer
16.			
13. 3/8"	29'	29'	
10.			Size of
8 5/8"	2584'	2584'	
7"	6247'	6247'	Depth set
5 3/16			
4 1/2			
3.			Perf. top (See
2. 3/8"	6571'	6571'	Perf. bottom Reverse
Liners Used			Perf. top Side)
			Perf. bottom

Attach copy of cementing record.

CASING CEMENTED SIZE No. Ft. Date

Amount of cement used (bags) (See Reverse Side)

Name of Service Co. Dowell

COAL WAS ENCOUNTERED AT None FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 7,200 Mcf 7,200 Mcf

ROCK PRESSURE AFTER TREATMENT 2285# HOURS 1

Fresh Water Feet Salt Water Feet

Producing Sand Oriskany and Chert Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
✓ Tully			5757'	5794'	Measured	from K.B.	
Shale			5794'	6230'			
✓ Onondaga			6230'	6255'			
✓ Chert - Huntersville			6255'	6391'	Gas		
✓ Shale - NEEDMORSE			6391'	6408'			
✓ Oriskany			6408'	6541'			
✓ Helderberg			6541'		Gas		
Total Depth				6582'			
				ASE	6230	6408	6541
					2604	2604	2604
					3626	3804	3937

Formation	Color	Hard or Soft	Top 15	Bottom	Oil, Gas or Water	Depth Found	Remarks
NOTE:							
13 3/8"	48#/ft.,	K-40 casing	cemented to surface with	25 sacks cement plus 2% CaCl.			September 26, 1971. 29' ground level, 46' kelly bushing.
9 5/8"	36#/ft.,	K-55, casing	cemented to surface with	740 sacks of Kolite plus			2% CaCl. October 3, 1971. Casing Set at 2584' ground level, 2601' kelly bushing, 2580' threads off, 2599' threads on.
7"	23#/ft.,	K-55, plus 13 joints of	23#/ft., N-80, Seal-lok casing	cemented in			1000' with 220 cu. ft. of Dowells RFC cement plus kolite, October 8, 1971. Gel drilling mud to surface with 1 drum Baroids B-33. Casing set at 6247' ground level, 6261' kelly bushing, 6247' threads off, 6300' threads on.
2 3/8"	4.6#/ft.,	J-55, Seal-lok tubing	run to total depth, (1) Baker Model "J" ported seating nipple, (1) Baker RFC Model "L" sliding sleeve. Sliding sleeve is 425' off bottom. October 11, 1971. 6571' ground level, 6581' kelly bushing, 6566' threads off, 6615' threads on.				
Perforations:			Chert and Oriskany open hole				
Logging:			Gamma Ray- Collar log and temperature (5600' - 6586') October 11, 1971				
Stimulation:			<u>October 19, 1971</u>				
			2150# rock pressure, unloaded. Added 5 gallons of soap plus 25 barrels of fresh water and unloaded. After 1 hour well gauged "21/10" water in 2" or 176 M.				
			<u>October 26, 1971</u>				
			2150# rock pressure. Halliburton treated well using 1000 gallons 20% HCL acid, 800 barrels of fresh water, 40 BPM, 2800# average pressure, plus N ₂ .				
			<u>October 27, 1971</u>				
			"94/10" mercury in 4", 6.003 M wet.				
			<u>October 29, 1971</u>				
			Final open flow, 2285# rock pressure, 7.2 M, mist.				

Date January 20, 19 72

APPROVED Columbia Gas Transmission Corporation, Owner

By *[Signature]*
Production and Storage Superintendent