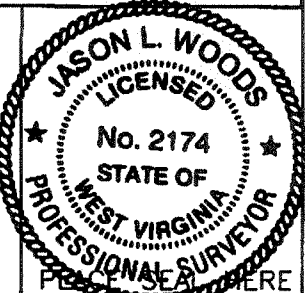


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No. 10-100-008
 DRAWING No. 10-100-008
 SCALE 1"=2000'
 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]
 JASON L. WOODS PS #2174



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

DATE APRIL 5 20 10
 OPERATOR'S WELL No. 7454
 API WELL No. 47 075 - 00025W

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 3440' WATER SHED ELKLICK RUN
 DISTRICT GREENBANK COUNTY POCOHONTAS
 QUADRANGLE WILDELL

SURFACE OWNER USA DEPT OF INTERIOR ACREAGE _____
 OIL & GAS ROYALTY OWNER MINERAL'S MANAG LN LEASE ACREAGE 482.12
 LEASE No. 90700

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

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION _____ ESTIMATED DEPTH _____

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

Glady 6-0

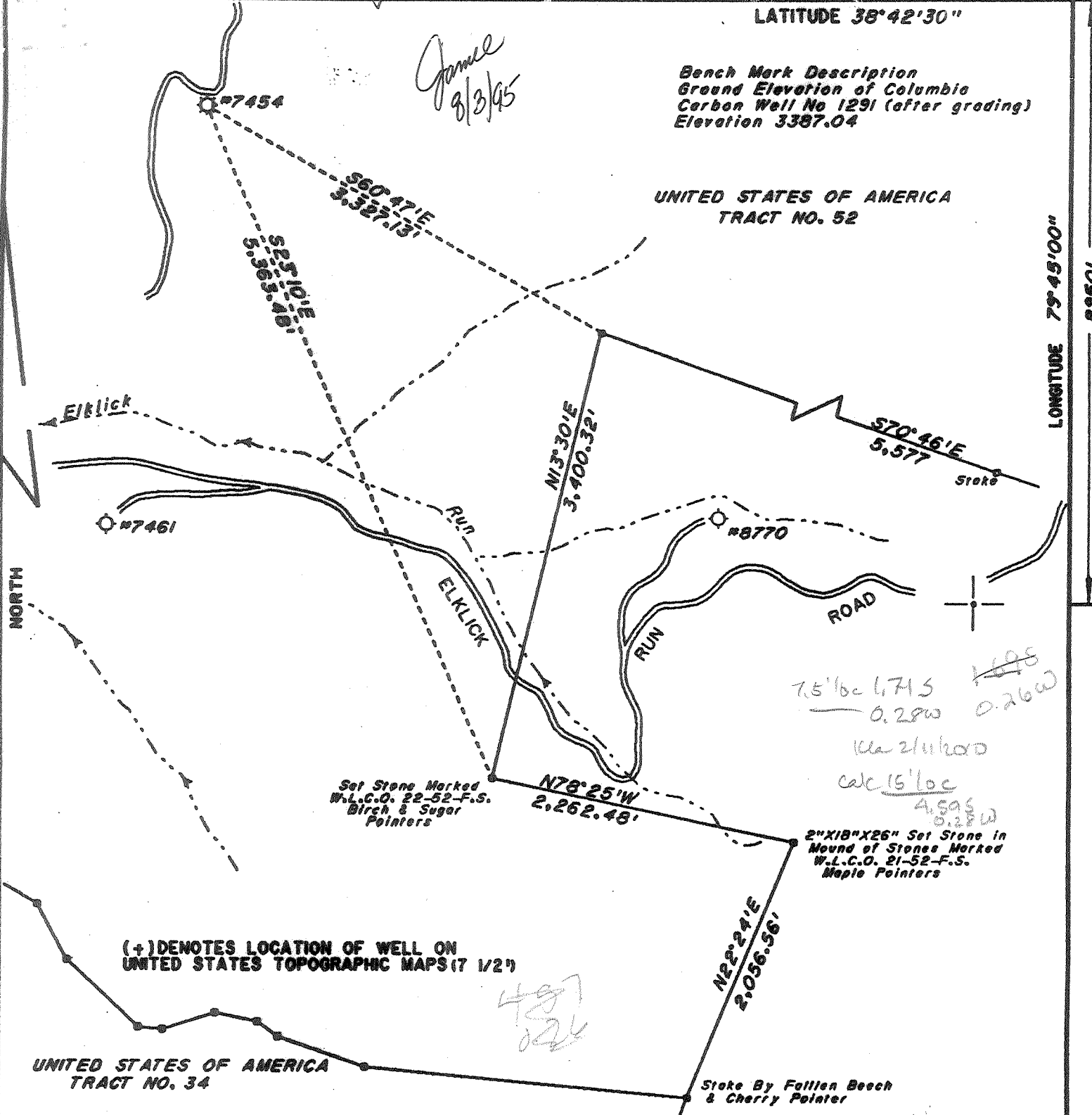
LATITUDE 38°42'30"

Jamee
8/3/95

Bench Mark Description
Ground Elevation of Columbia
Carbon Well No 1291 (after grading)
Elevation 3387.04

UNITED STATES OF AMERICA
TRACT NO. 52

LONGITUDE 79°45'00"



Set Stone Marked
W.L.C.O. 22-52-F.S.
Birch & Sugar
Pointers

2"X18"X26" Set Stone in
Mound of Stones Marked
W.L.C.O. 21-52-F.S.
Maple Pointers

(+) DENOTES LOCATION OF WELL ON
UNITED STATES TOPOGRAPHIC MAPS (7 1/2")

UNITED STATES OF AMERICA
TRACT NO. 34

State By Fallen Beech
& Cherry Pointer

7.5' loc 6.715
0.28W *1.698*
0.26W
Wc 21/1200
Wc 15' loc
4.595
0.28W

FILE NO. 162-81
DRAWING NO. _____
SCALE 1"=1000'
MINIMUM DEGREE OF
ACCURACY 1/200
PROVEN SOURCE OF
ELEVATION See Above

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.
(SIGNED) *Educ Nicholson*
R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JANUARY 3, 19 95
OPERATOR'S WELL NO. 7454
API WELL NO. _____

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

LOCATION: ELEVATION 3438.00' WATER SHED ELKLICK RUN
DISTRICT GREENBANK COUNTY POCAHONTAS

QUADRANGLE WILDELL COORDINATES LAT: 38° 41' 01" LONG: 79° 45' 22"
SURFACE OWNER USA DEPT OF INTERIOR ACREAGE _____

OIL & GAS ROYALTY OWNER USA DEPT OF INTERIOR LEASE ACREAGE 1828.67
COAL OWNER _____ LEASE NO. 90700

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Cushman & Chest ESTIMATED DEPTH 6015'

WELL OPERATOR COLUMBIA GAS TRANS CORP DESIGNATED AGENT RICHARD L. COTY
ADDRESS PO BOX 1273, CHARLESTON, WY 25325 ADDRESS PO BOX 1273, CHARLESTON, WY 25325

DEEP WELL

POCAHONTAS
COUNTY NAME
PERMIT
25

P

Latitude 38° 45'

Longitude 79° 45'

BENCH MARK DESCRIPTION
Ground Elevation Of Columbian
Carbon Well No. 129, (After Grading)
Elevation: 3387.04'

DEGREE OF ACCURACY
One Part In Two Hundred.

UNITED STATES OF AMERICA
Tract No. 52

Spruce Post In
Mound Of Stones
Marked W.L.C.O. 23-F.5.

7454

N60° 47' W
3327.13'

N23° 10' W
5363.48'

S70° 46' E
5577.00'

4.585
0.33 W

8770
RUN

7461

ELK

LICK

Stake

Set Stone Marked
W.L.C.O. 22-52-F.5.1
Birch & Sugar Pointers. 262.48'

N78° 25' W
262.48'

2" X 18" X 26" Set Stone In
Mound Of Stones Marked
W.L.C.O. 21-52-F.5. Maple
Pointers.

N22° 24' E
2056.56'

Stake By Fallen Beech,
Cherry Pointer.

UNITED STATES OF AMERICA
Tract No. 34

4.615
0.34 W

1-SE (I-12)

New Location...
Drill Deeper.....
Abandonment.....

(I-12)

Seyfert R. Ferrell

Company ATLANTIC SEABOARD CORP.

Address CHARLESTON, W. VA.

Farm U.S.A. DEPT. OF INTERIOR

Part Of Tract 52 Acres 1828.67 Part Of Lease No. AS-700

Well (Farm) No. _____ Serial No. 7454

Elevation (Spirit Level) 3438.00'

Quadrangle DURBIN - NE

County POCAHONTAS District GREENBANK

Engineer *Seyfert R. Ferrell*

Engineer's Registration No. 2529

File No. 162-81 Drawing No. _____

Date JUNE 4, 1964 Scale 1" = 1320'

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

WELL LOCATION MAP

FILE NO. POCA-25

+ Denotes location of well on United States
Topographic Maps, scale 1 to 62,500, lat-
itude and longitude lines being represented
by border lines as shown.

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

Orphan Jay Strays

9-0 261

Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

1-28-66

Gas Storage
(KIND)

Quadrangle Durbin

WELL RECORD

Permit No. POCA-24 25

Oil or Gas Well

Company Atlantic Seaboard Corp.
Address P. O. Box 1273 Charleston, W. Va. 25325
Farm U.S.A. Dept. of Interior Tr. #29 Acres 1828.67
Location (waters) Elk Lick Run
Well No. X-77-7454 Elev. 3438'
District Greenbank County Pocahontas
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by U.S. Dept. of Interior
Address Washington, D. C.

Drilling commenced Nov. 11, 1965
Drilling completed Dec. 13, 1965
Date Shot _____ From _____ To _____
With _____

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 58,000 M - Oriskany Cu. Ft.
Rock Pressure 2050 lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8	30' Cemented to Surface		Size of
10			Depth set
9-5/8	1257' "	" "	
7"	5821' "	" "	
5 3/16			Perf. top
4 1/2			Perf. bottom
3		6009'	Perf. top
23/8			Perf. bottom
Liners Used			

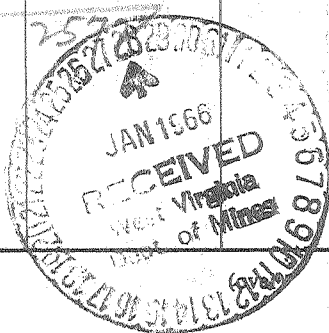
Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____

Gas Storage Well

ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water 430' Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	700	Fresh Water	430'	
Sand & Lime			700	970			
Lime			970	1040	Gas	5848' Est. 750 M	
Sand & Shale			1040	1400			
Sand			1400	2150	Gas	5964-5968' test 10,280 M increased at 5970'	
Sand & Shale			2150	3690			
Sand			3690	4445			
Sand & Shale			4445	4700	All gas test	16,030 M when completed drilling.	
Sand			4700	5302			
Tully Lime			5302	5327			
Marcellus Shale			5327	5600	Acidized with 10,000 gallons retarded 15% Hcl, 10,000 gallons regular 15% Hcl, 10,000 gallons 3% Hcl overflush, 10,000 gallons water flush, 188,000 standard cu. ft. Nitrogen - rate 200 standard cu. ft. per bbl.		
Onondaga Lime			5600	5648			
Chert			5648	5745			
Cherty Shale			5745	5770			
Shale			5770	5811			
Oriskany			5811	6010			
Helderberg Lime			6010	6015	Final open flow after fracture	-58,000 M	
Total Depth			6015'				
	5600	5811	6010				Shut in 1-5-66 in 2-3/8" tubing.
	3438	3438	3438				Logs Run: Cement Top Cement Bond
	2162	2373	2577				Open flow is calculated maximum open flow at field pressure of 2050#.



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FORM WW Environmental Protection

JUN 22 1995

075 25W

Issued 07/19/95

Page ___ of ___

Expires 07/19/97

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

Permitting Office of Oil & Gas

COLUMBIA GAS TRANSMISSION CORP.

10450 (2) 680

- 1) Well No. 7454
2) Operator's Well Number: 7454 3) Elevation: 3438.00'
4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production ___ / Underground Storage X / Deep X / Shallow ___
5) Proposed Target Formation(s): CHERT-ORISKANY (WORKOVER)
6) Proposed Total Depth: (ORIGINAL TD) 6015 feet
7) Approximate fresh water strata depths: 430'
8) Approximate salt water depths: UNKNOWN
9) Approximate coal seam depths: UNKNOWN
10) Does land contain coal seams tributary to active mine? Yes ___ / No X ___
11) Proposed Well Work: WELLHEAD REPLACEMENT, TUBING REPLACEMENT, PARTIAL CASING REPLACEMENT, REPERFORATE (INCLUDING PERFORATING SECTIONS OF THE CHERT) AND ACIDIZE.
12)

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade), FOOTAGE INTERVALS (Weight per ft., For drilling, Left in well), and CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind NONE
Sizes
Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: [] Well Work Permit [] Reclamation Fund [] WPCP
Plat [] WW-9 [] WW-2B [] Bond [] Agent

RECEIVED

WV Division of Environmental Protection

JUN 22 1995

Permitting Office of Oil & Gas

- 1) Date: 4/27/95
- 2) Operator's well number 7454
- 3) API Well No: 47 - 075 - 00025
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name U.S. FOREST SERVICE
Address MONONGAHELA NATIONAL FOREST
P. O. BOX 1548, ELKINS, WV 26241
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name U.S. DEPT. OF INTERIOR, BUREAU OF LAND MGT.
Address P. O. BOX 631
MILWAUKEE, WI 53201-0631
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector PHILLIP TRACY
Address RT. 2, BOX 37-A
MONTROSE, WV 26283
Telephone (304)- 636-8798

TO THE PERSON(S) 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
 Included is the information required by Chapter 22B, Article 1, Section 8 of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22B 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)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, 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 CORP.
 By: Richard A. Colby
 Its: MANAGER - WELL SERVICES
 Address P. O. BOX 1273
CHARLESTON, WV 25325-1273
 Telephone 304-357-3034

Subscribed and sworn before me this 16th day of May, 1995

Phillip M. Snedon Notary Public
 My commission expires November 20, 2001

Handwritten notes and signatures:
 Office
 Notary Public
 PHILLIP M. SNEDON
 COLUMBIA GAS TRANSMISSION CORP.
 P. O. BOX 1273 - CHARLESTON, WV 25325
 MY COMMISSION EXPIRES 11-20-2001

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

Well Operator's Report of Well Work

Farm name: MONONGAHELA NAT'L FOREST Operator well No.: 7454

LOCATION: Elevation: 3,438.00 Quadrangle: WILDELL

District: GREENBANK County: POCAHONTAS
Latitude: 8,950 Feet South of 38 Deg. 42 Min. 30 Sec.
Longitude: 1,430 Feet West of 79 Deg. 45 Min. Sec.

Compay: COLUMBIA GAS TRANSMISSION
P.O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: ICHARD L. COTY
Inspector: CRAIG DUCKWORTH (PHIL TRACY)
Permit Issued: 07/19/95
Well work Commenced: 9/20/95
Well work Completed: 7/15/96

Verbal Plugging
Permission granted on: _____

Service Rotary Cable _____ Rig
Total Depth (feet) (CLEANED OUT) 6015'
Fresh water depths (ft) (See Original Records)

Salt water depths (ft) (See Original Records)
(none recorded)

Is coal being mined in area (Y/N) ? N
Coal Depths (ft) : (none recorded)

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	30'	30'	TO SURF. 30 SKS CMT
9-5/8"	1,257'	1,257'	500 SKS CMT
7'	5821'	5821'	2 stg/ 1,068 cu ft poz/ 400 gals cealment
2-3/8" (tubing pulled and replaced -see back for details) 5,532.78 ft.			
(SEE ALSO ORIGINAL RECORDS)			

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 5811'-6010'
Gas : Initial open flow (2" cfp) 34 MMCF/d Oil : Initial open flow _____ Bbl/d
Final open flow (2" cfp) 150 MMCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 1811 psig (surface pressure) after 432 Hours

Second producing formation Huntersville Chert Pay zone depth (ft) 5619'-5770'
Gas : Initial open flow N/A MCF/d Oil : Initial open flow _____ Bbl/d
Final open flow (2" cfp) 2.6 MMCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 1578 psig (surface pressure) after 24 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: COLUMBIA GAS TRANSMISSION CORP.

By: W H Foraker
Date: 1/30/97

FEB

FEB 21 1997

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

Well Operator's Report of Well Work

The wellhead was removed and a new API 3000 9-5/8"x7"x2-3/8" wellhead was installed.// A total of 141.15ft. of 7" 23#/ft. (46.75ft. N-80 & 94.40ft. J-55) was pulled and replaced with new 7" 23#/ft. J-55 casing (141.72ft.).// The old 2-3/8" tubing was pulled and retired and new 2-3/8" 4.7#/ft. J-55 was ran to 5812.13ft.// The well was cleaned out to the original TD.// The formation was jetted with coiled tubing using 500gals. Halliburton 15% FE Acid & 2%Kcl water and 25,000Scf nitrogen on 1/3/96.// The well was acidized with 10,000gals. Halliburton 15% FE Acid w/ 10gals. SCA-130; 15gals. HAI-81; 3lbs. BE-5; & 30gals.HC-2. (Acidized 1/10/96).// The tubing (5,812.13 ft. of 4.7#/ft J-55 EUE) was snubbed out of the well.// The well was logged with DIL/GR, ZDL, SWN/GR, and Hex Dip logs in the open hole section.// The Oriskany was treated with a 75 Quality Foamed Acid Job on 6/10/96, consisting of: 74.8bbbls 28% Halliburton FE acid (300bbl foamed equivalent with nitrogen), 74.8bbbls 20% FE acid (300bbl foamed equivalent), 300 bbl foamed equivalent 15% Fe acid, and 300bbl foamed equivalent 7-1/2% FE acid. Additives were 3gal/1000 HAI-81, 2gals/1000 SCA-130, 3gals/1000 HC-2, and the acid was diluted on location with water treated with 1lb/250bbl BE-3. Initial wellhead pressure was 1641psig and treating pressures built to 2099psig at an equivalent rate of 32BPM (7.13BPM slurry and 18,390.40SCF/Min Nitrogen) The job was flushed with 400bbl equivalent 75 quality foam (treated water & N2) and 60BBL uncut water. Shut in pressure was 1235psig, 5min. 1107psig, 10min 1030psig.// The casing was hydraulically fractured and treated with 500gals 15% SWIC Acid. Chert was perforated 4 shots/ft, 60 degree phasing, 5725'-5731', 5687'-5697', 5659-5679', 5639'-5659', 5619'-5639' (338 shots) WALS. Chert was treated with Halliburton SIP Tool (Straddle Injection Packer) @ 5' intervals, 15bbl 15% FE acid (total 10,000gals 15% FE acid, approx. 131gals/ft).// Ran GR/N TD to Surf.// Ran Directional Survey.// Snubbed back in hole w/ 5532.78ft of 4.7#/ft J-55 tubing.

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Hedrick, Joe K Operator Well No.: Hedrick Unit #2

LOCATION: Elevation: 2601' Quadrangle: Onego

District: Union County: Pendleton
Latitude: 5860' Feet South of 38 Deg. 50 Min. 00 Sec.
Longitude 9350' Feet West of 79 Deg. 27 Min. 30 Sec.

Company: T&F Exploration, LP

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 186 S. Kanawha Street	20"	10'	10'	
Buckhannon, WV 26201	11-3/4"	59'	59'	
Agent: Thomas Dunn	8-5/8"	1081'	1081'	CTS
Inspector: Bill Hatfield	4-1/2"	7665'	7665'	427 CF
Date Permit Issued: April 10, 2008	2-3/8"		7560'	
Date Well Work Commenced: 6/18/2008				
Date Well Work Completed: 11/20/2008				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 7,730'				
Fresh Water Depth (ft.): 162', 235'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 7,417'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow Bbl/d
Final open flow 140 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 3010 psig (surface pressure) after 900 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

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.

Signed: Thomas B. Dunn
By: Thomas B. Dunn, President
Date: 2/2/09

1. Well Log

Devonian Shale	0 - 6,730'
Tully LS	6,730' - 6,741'
Shale	6,741' - 7,076'
Upper Marcellus	7,076' - 7,131'
Purcell LS	7,131' - 7,200'
Lower Marcellus	7,200' - 7,258'
Onondaga LS	7,258' - 7,277'
Needmore Sh	7,277' - 7,415'
Oriskany SS	7,415' - 7,610'
Heldeberg LS	7,610' - TD (7,730')

2. Perforated Interval (Oriskany)

7,418' - 22' (2 spf), 7,500' - 11' (1 spf), 7,570' - 96' (1 spf)

3. Fracture Stimulation

BD formation @ 3,700# and ballout perms with 4,000 gal Mod 202 acid. Spearhead 4,000 gal Mod 202 acid @ 8 BPM & 3,688#. Frac with 25# X-link gel. Pump 833 bbls pad and 148,000 lbs 20/40 sand @ max sand conc of 5 ppg until screenout occurred. ATR - 35 BPM, ATP - 4596#. Total fluid pumped - 2300 bbls. ISIP - 4331#, 15 min SIP - 3520#.

WR-35
Rev (5-01)

DATE: 7/14/10
API #: 47-075-00025-W

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: U.S. Forest Service

Operator Well No.: 7454

LOCATION: Elevation: 3440 ft Quadrangle: Wildell
District: Greenbank County: Pocohontas
Latitude: 8.950 Feet South of 38 Deg. 42 Min. 30 Sec.
Longitude 1,1430 Feet West of 79 Deg. 45 Min. 00 Sec.

Company: Columbia Gas Transmission, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>1700 MacCorkle Ave SE</u> <u>Charleston, WV 25325-1273</u>				
Agent: <u>Paul Amick</u>	This is an existing storage well. The 2-3/8" tubing was removed during the 2010 permitted well work. Below is a record of current tubulars in well.			
Inspector: <u>David Gilbert</u>				
Date Permit Issued: <u>4/30/10</u>				
Date Well Work Commenced: <u>5/26/2010</u>	<u>13-3/8 48#</u>	<u>30</u>	<u>0 - 30</u>	<u>30 sx</u>
Date Well Work Completed: <u>6/30/2010</u>	<u>9-5/8 32#</u>	<u>1248</u>	<u>0 - 1248</u>	<u>500 sx</u>
Verbal Plugging:	<u>7 23#</u>	<u>5804</u>	<u>0 - 5804</u>	<u>1120 cu ft</u>
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>6015 (pre-work TD)</u>				
Fresh Water Depth (ft.): <u>not applicable - rework</u>				
Salt Water Depth (ft.): <u>not applicable - rework</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>none reported</u> ft				

RECEIVED
Office of Oil & Gas
JUL 12 2010

OPEN FLOW DATA

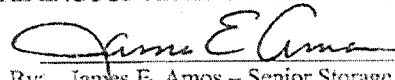
WV Department of Environmental Protection

Producing formation Oriskany Sand Pay zone depth (ft) 5871 - 5899
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow none Bbl/d
Final open flow * 133,000 MCF/d Final open flow none Bbl/d
Time of open flow between initial and final tests not applicable Hours
Static rock pressure 700 psig (surface pressure) after 24 Hours
* AOF @ max rock pressure of 2050 psig

Second Producing formation N/A 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.

Signed:


By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission, LLC
Date: 7/14/10

Glady storage well 7454

This is an existing storage well. Below is a summary of work performed.

Pumped methanol and fresh water down tubing. Installed tubing blanking plug. Stripped/snubbed tubing out of well. Obtained pipe inspection log and set retrievable bridge plug. Killed well above bridge plug. Installed new API wellhead. Pulled RBP. Flowed well to recover fluids and re-establish gas flow.

* Note that no earthen pit was utilized. All fluids recovered via steel tanks and transported off site to waste water treatment facility.