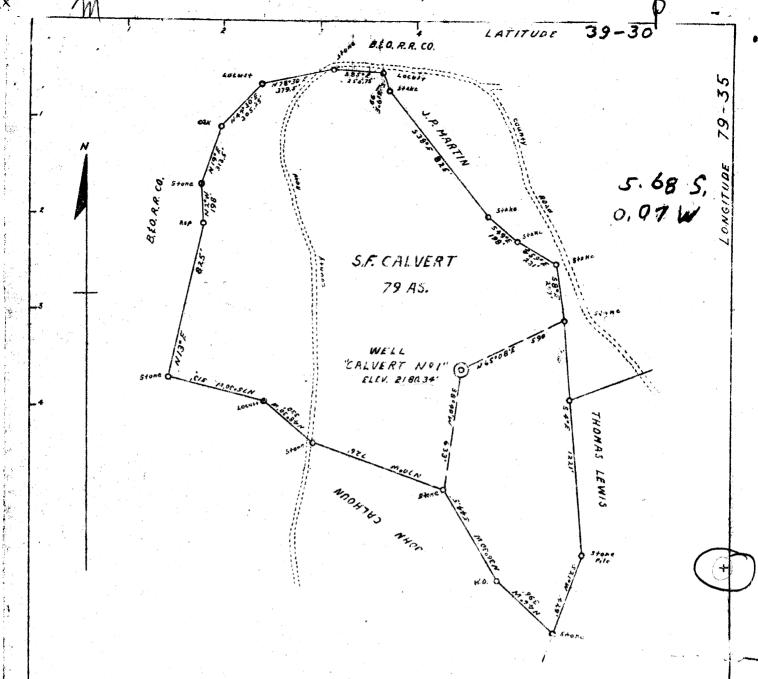


DEEP WELL



I the undersigned hereby certify that this map is correct and shows all the information, to the best of my knowledge and belief, required by the Oil & Gas Section of the Mining Laws of Vest Virginia.

Engr. - Reg. Nº

Acknowledged before a Netary Public this ___ day of 1950

Public Commission COMPANY STATE OF WEST VIRGINIA ORVILLE EBERLY DEPARTMENT OF MINES WILDIAM SNEE

OIL & GAS DIVISION ADDRESS 208 UNION TRUST BLOG CHARLESTON, W. W.A. UNIONTOWN, PA.

SERIAL Nº

FILE Nº 110 DRAWING NO

DATE- 13 OCTOBER 1950 SCALE! "= 500"

WELL LOCATION MAP ACRES - 79 LEASE TRACT /

FARM S. F. CALVERT FILE Nº PRCS-19

WELL FARM Nº1 + Denotes location of well on U.S. QUADRANCLE KINGWOOD

Topographic Map. Scale 1 to 62,500 COUNTY PRESTON PORTLAND - NC DISTRICT

Latitude & longitude being represented by border lines as shown. ENGINEER GUY ZINN ENGINEER REGISTRATION Nº 2308

- Sanotes I inch space on border line of original drawing

6-6286 Deep Well

PRE
0019
5

WR 35 FECEIVED
Office of Oil & Gas
UIC Scotlen
MAY 0 7 1939

WY Division of Environmental Projection

04-Dec-96 API # 47- 077-00019-W

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

Reviewed_	18	

Farm name: BURNS, WM. & KATHRYN LOCATION: Elevation: 2,190.00' Quadrangle: TERRA ALTA District: PORTLAND Latitude: Feet South of 39 Deg. 25 Min. 12 Sec. Longitude: Feet West of 79 Deg. 35 Min. 07 Sec. Compay: COLUMBIA GAS TRANSMISSION P.O. BOX 1273 CHARLESTON, WV 25325-1273 Agent: RICHARD L. COTY Inspector: PHILLIP TRACY Permit Issued: 12/04/96 Mall words Conversed in 27/23/07	
District: PORTLAND Latitude: Feet South of 39 Deg. 25 Min. 12 Sec. Longitude: Feet West of 79 Deg. 35 Min. 07 Sec. Compay: COLUMBIA GAS TRANSMISSION P.O. BOX 1273 CHARLESTON, WV 25325-1273 Agent: RICHARD L. COTY Inspector: PHILLIP TRACY Permit Issued: 12/04/96 County: PRESTON Deg. 25 Min. 12 Sec. Casing Used in Left Up Tubing Drilling in Well Cu.	
Latitude: Feet South of 39 Deg. 25 Min. 12 Sec. Longitude: Feet West of 79 Deg. 35 Min. 07 Sec. Compay: COLUMBIA GAS TRANSMISSION P.O. BOX 1273 CHARLESTON, WV 25325-1273 Agent: RICHARD L. COTY Inspector: PHILLIP TRACY Permit Issued: 12/04/96 Left Cemeral Sec. Used in Left Cemeral Sec. Up Tubing Drilling in Well Cu. Size	
P.O. BOX 1273 CHARLESTON, WV 25325-1273 Agent: RICHARD L. COTY Inspector: PHILLIP TRACY Permit Issued: 12/04/96	
Agent: RICHARD L. COTY Inspector: PHILLIP TRACY Permit Issued: 12/04/96 Tubing Drilling in Well Cu. Size	ent Fi
Permit Issued: 12/04/96	Ft
Woll work Commonand	
Well work Commenced: 07/23/97 Well work Completed: 09/18/97 Verbal Plugging	
Permission granted on:	
Rotary Cable Rig Total Depth (feet) 5,504'	
Fresh water depths (ft) See Original Records RE-PERFORATED 4-1/2" SEE BACK FOR DETAILS	
Salt water depths (ft) See Previous STIMULATION; SEE BACK FOR DETAILS	
Is coal being mined in area (Y/N) ? N Coal Depths (ft): See Previous	
OPEN FLOW DATA	
Producing formation ORISKANY Pay zone depth (ft) 5,361' - 5,492' Gas : Initial open flow 3343 MCF/d Oil : Initial open flowBbl/d	_
Final open flow 3343 MCF/d Oil: Initial open flow Bbl/d Final open flow Bbl/d	
Time of open flow between initial and final tests <u>505 Days Hours</u>	÷
Static rock Pressure 2198 psig (surface pressure) after 4 Hours	
Second producing formation Pay zone depth (ft)	
Second producing formationPay zone depth (ft)Bb Second producing formationBb	ol/d
Final open flowMCF/d Final open flowBbl Time of open flow between initial and final testsHours	
Static rock Pressurepsig (surface pressure) afterHours	5
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: William H. Forakon	

04-Dec-96 API # 47- 077-00019-W

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

Well Operator's Report of Well Work

RE-PERFORATED

- Re-perforated on 07-30-97 from 4,970' 5,396' with 6 shots/ft STIMULATION
- Acidized on 08-11-97
- Halliburton Coiled Tubing Conveyed -Selective Injection Packer -Acid Job.
- Acidized with 4,830 gals 15% Halliburton FE Acid setting selective injection packer and treating with five foot intervals as follows: 5,388'-5,393', 5,383'-5,388', 5,378'-5,383', 5,373'-5,378', 5,368'-5,373', 5,363'-5,368', 5,305'-5,310', 5,300'-5,305', 5,282'-5,287', 5,280'-5,282', 5,271'-5,276', 5,258'-5,263', 5,253'-5,258', 5,248'-5,253', 5,243'-5,248', 5,238'-5,243', 5,233'-5,238', 5,228'-5,233', 5,205'-5,210'.

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELL RECORD

						A 181 - 7 7
Permit No. Pres. 19						Gas Well CASING & TUBMIG
Kingwood Quad.	Wm - 1	7 Snee	and Or	ville Eberly		ONDING & TODING
Company Address				dg., Uniontown,	Pa.	13 16 6 All
Farm		Calvert			-	10 405 8 "
Location	Salt	Lick C	reck			7 OD 5190' "
Well No.	1	Elev	2190			2 5448 "
District	Port:			n County		
Surface		Calver	t, Maso	ntown, W.Va.		Casing comented:
Mineral	Same	3 3050				7 OD cemented
Commenced		1,1950 13,195	1			with 50 sacks 2-11-51
Completed Not shot	MST.	10,100	L			70-TT-0T
Open flow	75/1	Oths W	in 3"			No coal present
Volume		000 C.F.				, i
Rock Pressure	1990	lbs. 1	hrs.			
03.55	^	3.6				
Clay Slate	0 16	16 40				
Lime	40	55				
Slate	55	110				
Sand	110	125				
Slate	125	220				
Lime	220	235				
Slate	235	255				
Lime	255	280				
Slate	280	306				
Lime Slate	306 320	320 37 5				
Lime	375	385				
Slate	385	408				
Lime	408	420				
Slate	420	440				
Slate & Shells	440	1578				
Benson Sand-Brown	1578	1600				
Slate & Shells	1600	3661				
Brown Shale	3661	3710				
Grey Shale	3710	3800				
Slate & Shells Brown Shale	3800 42 1 5	4215 4595				
Black Shale	4595	4695				
Lime Tully	4695	4715				
Slate & Shells	4715	5136				
Lime	5136	515 6				
Black Slate Marcellus		5187				
Brown Break	5187.	5190				
Lime Onondaga	~51 9 0	5223				5190
Chert	5223 5367	53 67 5452				2190
Sand Oriskany Lime	5452	5493	T.D.			
The state of the s		CONTRACTOR OF THE PARTY OF THE				-3000
Gas 5260-65	(A	45				
5277-88 W	S.A. Construct	SE SELLER SERVICE				
5290 - 92				ノーレ とっし		
5370-72 orisk				5 700		5367
CANN				5452 2190 3267		
•				326		. 2190
						-3177

FORM WW-2B STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL 07719 Frac. AND GAS WORK PERMIT APPLICATION WELL GAS TRANSMISSION CORPORATION 10450 637 COLUMBIA Operator's Well Number: Terra Alta Stg # 7374 (API 47-077-00019) 3) Elevation: 2.190 feet Issued 12/04/96 Gas X / Well type: (a) Oil_/ (b) If Gas: Production __/ Underground Storage X_/ Shallow _/ Deep X/ Chert- 475 5) Proposed Target Formation (s): Oriskany 6) Proposed Total Depth: 5,504 _feet 7) Approximate fresh water strata depths; NONE RECORDED Approximate salt water strata depths : NONE RECORDED 9) Approximate coal seam depths: NONE RECORDED 10) Does land contain coal seams tributary to active mine? Yes __/ No X_/ 11) Proposed Well Work: Columbia proposes to clean the well out to total depth with coiled tubing. The well will be logged with cased and open hole logs. The well will be re-perforated, acidized or fractured depending on log results. Cleaned up, flow tested & place back in service. CASING AND TUBING PROGRAM 12) CEMENT FOOTAGE INTERVALS **SPECIFICATIONS TYPE** Fill - up Left in Weight (cu. ft.) well drilling Grade per ft. Size 16'6" not recorded 16'6" <u>13"</u> conductor 405'6' 405'6" 10" Fresh Water

not recorded Coal 5,190 50 sks cmt 5,190' 7" **Intermediate** wo stg 535sks cmt 5,535 12.6# N-80 & J-55 4-1/2" **Production Tubing Liners** PACKERS · Kind None

TACKERS	Sizes	
25/2	Depths set	
Fae (s)	paid: Well Work Permit Reclamation Furth WW - 2B Type Type Type	WPCP Agent

Page 1 of__ Form WW2 - A (6/94) File Copy



1) Date: 10/24/96
2) Operator's well number TERRA ALTA WELL 7374

3) API Well No: 47 - 077 - 00019
State - County - Permit

STATE OF WESD VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	a l Oceanator :
) Surface Owner (s) to be served:	5) (a) Coal Operator:
· · · · · · · · · · · · · · · · · · ·	Name
206 Second Street ·	Address
I DEFE ALLS. WV ZUIUT	- The Declaration
b) Name Harris G. & Edna L. Britton-1/3 Interest	(b) Coal Owner (s) with Declaration
Address Same as above	(10)
Addresssame as above	Address
c) Name	Name
Address	Address
	(c) Coal Lessee with Declaration
6) Inspector Phillip Tracy	·
Address Route 2, Box 37-A	
Montrose, WV 26283	
Telephone (304) - 636-8798	
TOTAL AND ME	TAKE NOTICE THAT:
TO THE PERSON(S) NAMED ABOVE	TARE NOTICE THAT
10	timuing contract Of
Included is the lease or leases or	other continuing contract of
Included is the lease or leases or contracts by which I hold the right to	extract oil and gas <u>viv</u>
contracts by which I hold the right to X Included is the information required by West Virginia (see	y Chapter 22, Article 6, Section
X Included is the information required 8 (d) of the Code of West Virginia (see	page 2) Code
8 (d) of the Code of West Virginia (see I certify that as required under Cha	apter 22 of the West Virginia Code
I certify that as required under Cha	application, a location plat, and
I have served copies of this notice	on the above named parties, by:
I have served copies of this notice and accompanying documents pages 1 through	hed)
Personal Service (Affidavit attac	receint attached)
Personal Service (Affidavit attraction X Certified Mail (Postmarked posta	attached)
Publication (Notice of Publication	(Carrier of)
***************************************	and lagree
I have read and understand Chapter 2 to the terms and conditions of any pe	2-6 and 36 cont 11 to, and 25 co
to the terms and conditions of any pe	rmit issued under the approximation and am
to the terms and conditions of any pe I certify under penalty of law that I	have personally examined and all
I certify under penalty of law that I familiar with the information submitted on	this application form and an
familiar with the information submitted on attachments, and that based on my in the information.	iquiry of those individuals infinediately
attachments, and that based on my ir responsible for obtaining the information, I	believe that the information
responsible for obtaining the information,	
is true, accurate, and complete. I am aware that there are significa	nt penalties for submitting false
I am aware that there are significant	e and imprisonment.
Mell Operation	nt penalties for submitting faise ie and imprisonment. for /COLUMBIA GAS TRANSMISSION CORP. r Storage Engineer / Well Services Route 3, Box 216
NOTARY PUBLIC	FORKO
STATE OF WEST VIRGINIA Senio	r Storage Engineer / Well Services
PATRICIA A. TURKETT \$ 18. Semo	Route 3, Box 216
P J. 90X 1273 Address	Elkins, WV 26241
SF 4969 44 0	201/636-8/24
Telephone	11W
Subscribed and sworn before me this	ETA_ uuj
1) Turboth	Notary Public
Talula U. Jurnell	+ 12 1997
My commission expires	10/11/
my 33	•
· ·	