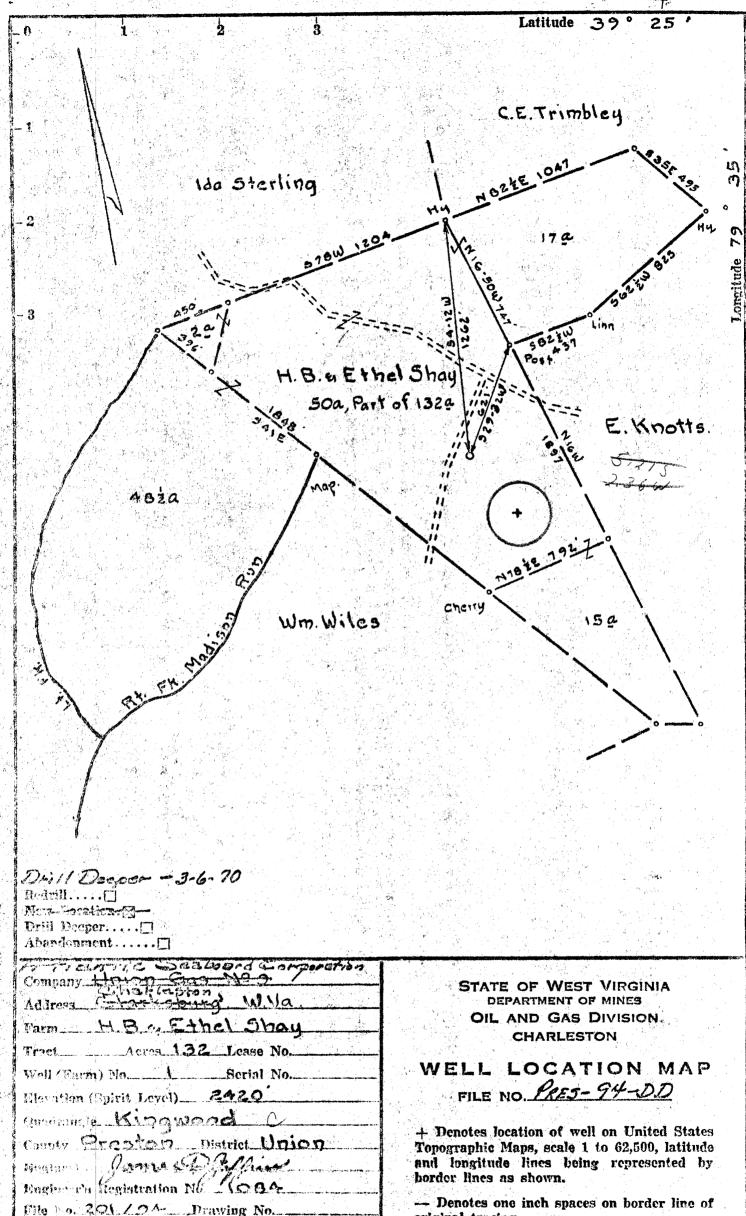


DEGREELL



OWDD GS GOTERNA Alta 280

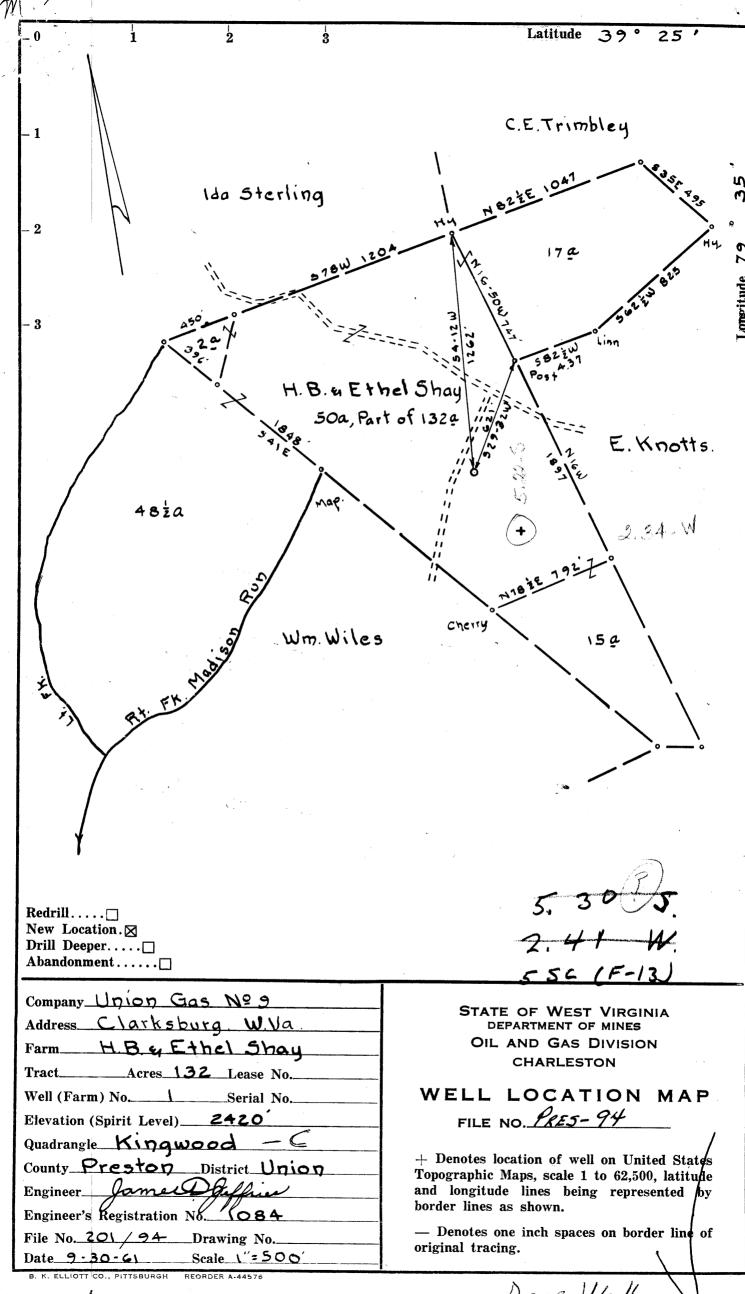
Date 9-20-61

Scale 1" 500'

Deep Well (Oniskany)

original tracing.

MAR 13 1970



No Samples

Deep Well

WR-35 RECEIVED
Office of Oil & Gas
UIC Section MAY 0 7 1999

27-Mar-96 API # 47- 077-00094 W

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

Roviewed.

WV Division of		Well Operator	's Report c	or well wo	PTK		
Farm name:	SHAY, BEVERLY	A. ETAL	Operator W	Vell No.:	TERRA ALTA S	OUTH 7514	
LOCATION:	Elevation:	2,420.00′			Quadrangle:	ROWLESBURG	
	District: UNION Latitude: Longitude:	12,250 Fee 990 Fe	et South	ounty: PRES of 39 of 79	TON Deg. 22 Min Deg. 37 Mi		
Compay: COLLI	MRIA GAS TRAN	SMISSION		Casing	Used in	Left	Ce

Compay: COLUMBIA GAS TRANSMISSION P.O. BOX 1273	Casing &	Used in	Left	Cement Fill
CHARLESTON, WV 25325-1273 Agent: RICHARD L. COTY Inspector: PHILLIP TRACY Permit Issued: 03/27/96		Drilling	in Well	Cu. Ft.
Inspector: PHILLIP TRACY	Size			
Permit Issued: 03/27/96		-		
Well work Commenced:07/24/97				
Well work Completed: 08/26/97				
Verbal Plugging				
Permission granted on:				,
Rotany Cable Rig				
Total Depth (feet) 6,169'				
Fresh water depths (ft) See Original Records				
	RE-PERFORA	TED 4-1/2" C	ASING; SEE BA	CK FOR
Salt water depths (ft) See Previous	DETAILS	•		
	STIMULATIO	N; SEE BACK	FOR DETAILS	
Is coal being mined in area (Y/N) ?_N				
Coal Depths (ft): See Previous				
OPEN FLOW DATA Producing formation Chert & Oriskany Pay zone Gas: Initial open flow 1712 MCF/d Final open flow 7370 MCF/d Time of open flow between initial Static rock Pressure 2166 psig (su	Oil : Initia Final and final urface press	open flow open flow tests sure) after _	480 D 4	Bbl/d Bbl/d <u>ays_Hours</u> Hours
Second producing formationF Gas: Initial open flowMCF/d Final open flowMCF/d Time of open flow between initial	Pay zone	depth (ft)	· · · · · · · · · · · · · · · · · · ·	
Gas: Initial open flowMCF/d	Oli : Illiudi	open nov	ν	Bbl/d
Final open flow het your initial	rilidi and final	tects		Hours
Static rock Pressure psig (surface p	oressure) af	ter	Hours	110013
NOTE: ON BACK OF THIS FORM PUT THE FOLLOW INTERVALS, FRACTURING OR STIMULATING, PHYSICAL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL INCLUDING COAL ENCOUNTERED BY THE WELLBORE	ING: 1). DET L CHANGE, - RECORD (TAILS OF PE ETC. 2). Th	RFORATED HE WELL	-

	FOT THE TOLLOWING, I). DETAILS OF THE SAFETY
G OR STIN	MULATING, PHYSICAL CHANGE, ETC. 2). THE WELL
MATTC DE	TAILED GEOLOGICAL RECORD OF ALL FORMATIONS,
DUNTERED	BY THE WELLBORE.
1	
For:	COLUMBIA GAS TRANSMISSION CORP.
	1 Me 1 En 16
	By: William A. Milker
	By: William H. Franker Date: May 4, 1999
	Dale: / KLY T, ///

WR-35

27-Mar-96 API # 47- 077-00094 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 4-1/2" casing 07/31/97 with Western Atlas Logging Services 3-3/8" expendable guns from: 6,015'-6,036', 5,950'-5,960', 5,942-5,946', and5,874'-5,938', with 594 shots @6 shots/foot.

STIMULATION

- Acidized on 08/25/97
- Halliburton Coiled Tubing Conveyed -Selective Injection Packer -Acid Job.
- Acidized with 11,592 gals 10% Halliburton FE Acid setting selective injection packer and treating with five foot intervals as follows:

5,886'-5,874' 6,036'-6,031' 6,031'-6,026' 6,026'-6,021' 6,021'-6,016' 6,016'-6,011' 6,008'-6,003' 5,960'-5,955' 5,955'-5,950' 5,946'-5,941' 5,941'-5,936' 5,936'-5,931' 5,931'-5,926' 5,926'-5,921' 5,921'-5,916' 5,916'-5,911' 5,911'-5,906' 5,906'-5,901' 5,901'-5,896' 5,896'-5,891' 5,896'-5,881' 5,881'-5,878'.



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

Rotary	
Spudder	
Cable Tools	
*****	-

Ouadranale Kingwood

it No. Pres. 94 - D.D.

WELL	RECORD
------	--------

Storage K

Termit No			"Dril	l Decper"		Oll or Gas	(KIND)
	1.		tion W. Va. 25325	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm H. B.	and Ethel S	hay	Acres 132	Size			i i
Location (waters)	Right Fork	of Nadison	Run Elev. 2420			i	Kind of Packer
		County Pre				1	ize of
and the second s			nd Eth el Shay		1	l l	ize of
			burg, W. Va.		1.	. 1	Pepth set
	•		el Shay		1		
			burg, W. Va.	41/2	6118'	6118'	
							erf. top. (Sec
						· ·	erf. bottom Rever
			Го				erf. top Side)
						:	erf. bottom
			Inch		cementing record.		
			Inch	CASING CEM	ENTED	SIZE No.	FtDa
Volume	·		Cu. Ft.				Side)
			hrs.			• •	
Oil	*****		bbls., 1st 24 hrs.				ETINCHE
WELL ACIDIZE	D (DETAILS)	(See Reverse	e Side)				ET INCHE
							ET INCHE

•						***************************************	********************************
RESULT AFTER	TREATMENT	(Initial open Flow	or bbls.). 1.3	3 M		/33	.000
ROCK PRESSUR	E AFTER TRE	EATMENT 110	00	HOURS		***********************	

Producing Sand				,	Depth		7 ****** · · · · · · · · · · · · · · · ·
		Hard or	Γ		. Oil, Gas		
Formation	Color	Soft	Тор	Bottom	or Water	Depth	Remarks
				·	1136	1 1000	/ / / /
Oriskany					5835	6009	6166
Original To	tal Donth	•	6009	(1201		2420	-2420
Original 15	Lar Depth		6003	6130'		-(49	SHILL
Oriskany			6130'	6166'		3301	3/4
Helderberg			6166'				
Total De	pth		6169'				
			(485)				
				1	0		
		6169	#	"New Los	tage		
		6130_	0.		8		
		39 1	DD Soofa	90.		. :	
			ı T			1	

JAN 1 8 1971

OIL & GAS DIVISION

Formation	Color	Hard on Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
NOTE:	valation	n samesang					
4 1/2"	B-1400,	ement plus	49 lbs. of F	d in 1000's	mixed with	7 drym Rami	orton od atamana
. potent	Squeeze Hallibu	job on 4 1, rton latex o	2" casing wi	th Halliburt	on using 75	27.2 Ch	Company After
Perforati	ons:				and their	ic. Stell light	Location (septen)
	Chert (Oriskan	y (6011' - 6	(1) 11 shots 015') 9 shot 029') 21 sho	s 3 1/2 ts	" glass jest	s shots - Ma	y 22, 1970 at
Stimulation	n:					Address	Mineral rights are
Settinia diament lisp Silderi harring	I drum	rton stimula Bariod B-11 18 BPM. May	and 23/ barr	pay only us	ing 6000 gal water. Ave	lons. 28% He	Drilling complete, ID Drilling complete, ID Date Stud
m - Color	Hallibur HCL and	ton latter 300 barrels	stimulated cl	hert section ter. Well or	only using to Vac. May 2	barrels 287 5, 1970.	
Logging:	an Seek		S SUPPORTED TO LETTE	Marketta.	Cont		Volume Nevadra
1798 1798	Gamma Ra Caliper Differen	y - PDC	(6169)	- 5350') Ma - 5800') Ma - 6050') Ma - 5500') Ma - 5900') Ma	y 15, 1970 y 15, 1970 y 28, 1970 y 5, 1970	CATATION A	WELL PRACTURE RESULT AFTER T
	Gamma Ra Cement B	y - Neutron ond Log	(6169' (6160'	- 5800*) Ma - 5578*) Ma	y 5, 1970	THE TREE TREE TREE TREE TREE TREE TREE T	ROCK PRESSURE Freib Vanir Producing Sand
zin jaya	feeds.				an and	Color	Formation
14 A			The bearing				mederio
	T P (X)					danist in	Original Total
			7 (SEC.)	(中国教育等人)(2) (1)			Orinian
				i i com			Total Dep
diam'ila	O.		71 71 7 1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5				

	Date	December 17.	, 1970
			, () whar
Ry'.	C	(Tule)	fir.

1781 2 S Mark



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 22

Quadrangle Kingwood

WELL RECORD

Gas

Permit No. PRES-94 Oil or Gas Well. Company UNION GAS COMPANY NO. 9 (KIND) Address P. O. Drawer 351, Clarksburg, W. Va. Farm H. B. & Ethel Shay Acres 132 Casing and Tubing Used in Drilling Left in Well Packers Location (waters) Lantz Ridge Size Well No. One __Elev._ 16_ Kind of Packer_ 381 District Union - 381 County Preston 13 Same 5821 5821 The surface of tract is owned in fee by___ 10 Size of_ Star Route, Aurora West Virginia. 27361 27361 81/4 58551 58551 Mineral rights-are owned by____ 65/8..... Depth set_ _Address_ ___Same___ 5 3/16_ Drilling commenced May 7, 1962 Perf. top. Drilling completed September 12, 1962 Perf. bottom. Date Shot_ Liners Used_ Perf. top___ With____ Perf. bottom... Open Flow 10ths Water in____ _Inch 94/10ths Merc. in 2" _Inch CASING CEMENTED 711 SIZE 4501 No. Ft. Volume 1,124,000 _Cu. Ft. 8/18/62 Rock Pressure 1720# 72 ___hrs. COAL WAS ENCOUNTERED AT_____FEET___INCHES Oil _bbls., 1st 24 hrs. _INCHES____ ___FEET____INCHES WELL ACIDIZED Treated with 20,000 Gal. 15% Acid __INCHES__ _FEET___ ___INCHES _ FEET__ WELL FRACTURED_ 9,105 McF gas RESULT AFTER TREATMENT 30/10 M. 7"

ROCK PRESSURE AFTER TREATMENT___ 1720#

Rock Slate Lime Slate Lime Slate Lime Slate Lime Slate Lime Slate Lime Slate Shale Sha	Fresh Water		Feet		Salt Water_		Feet	
Slate	Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Lime Red Shale					40			
Rock Sand Lime Lime Red Lime Lime Sand S				40	95			
Sand				95	170			
Lime Red Lime Red Lime Slate Shale Shale		Pink					2	
Lime Red Lime Red Lime Slate Shale Shale	Sand			215	240	Water at	220	
Lime Red 480 520 805 805 805 805 805 805 806 805 806 805 806 805 806 805 806 805	Lime			240	480			
Silate	Lime	Red		480	520			
Slate So So So So So So So S				520	805	1		
Lime Red Rock - Mauch 1040 1040 1040 2820 Slate 2820 2830 2860 2872 2872 3005 3370 3510 3805 11me 3370 3510 3805 4215 51ate & Shells 13005 3370 3510 3805 51ate & Shells 15 4880 51ate & Shells 15 5400 5425 5835 5836 5836 5835 5835 5835 5835 583			İ	805	890			•
Red Rock 1040 1040 2820 2830 2840 2820 2830 2860 2872 2872 3005 3370 2872 3005 3370 2814e & Shells 3370 3510 3805 4215 4880 Shale Brown 4880 5345 5400 5425 5835 5836 Shale Brown 5835 5835 5835 5835 5835 5860 5995 94/10 Water 2"			- sy	890	1025	· ·		·
Lime Slate		- Mary A. /	a de la		10/0			
Slate		Little south			2830			
Denson Sand 2830 2860 2872 2860 2872 3005 3005 3370 3510 3805 3510 3805 3510 3805 3510 3805 3605				2820				
Slate 2860 2872 3005 3370 Slate & Shells 3005 3370 3510 3805 310 310		, ha		2020	2050	•		
Lime 2872 3005 Slate & Shells 3005 3370 Lime 3510 3805 Slate & Shells 3805 4215 Slate & Shells 4215 4880 Shale Brown 4880 5345 Shale Black 5400 5425 Shale Brown 5835 5835 Shale Brown 5835 5835 Lime - On Chert 5860 5995 94/10 Water 2"		ura		2050			C 27 20 200	
Slate & Shells 3005 3370 3510 3510 3805						1 60	MOCI COCKS	
Slate & Shells Lime Slate & Shells Slate & Shells Slate & Shells Shale S		Nh - 3 7 -			3005			
Slate & Shells		werra		3005	3370		1 0 6	<u>}</u>
Lime Slate & Shells		- 77		3370	3510	1 10 6	13 115 1	N
Shale Brown Shale 5345 Time 5400 Shale 5425 Shale 5835 Brown 5835 5835 5835 Chert 5835 5835 5860 5995 94/10	State & S	uerra		3510		183	1. 6 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6 1. 6	<u> </u>
Shale Brown Shale 5345 Time 5400 Shale 5425 Shale 5835 Brown 5835 5835 5835 Chert 5835 5835 5860 5995 94/10		, , , ,			4215		FA. My	5 1
Shale Black 5345 5400 Time Tulley 5400 5425 Shale Brown 5835 5835 Lime 5835 5860 Gas 5895 5896 Chert 5835 5860 5995 94/10 Water 2"				4215			18.00	V
Time Tulley 5400 5425 Shale Brown 5835 5835 Lime - On Maria 5835 5860 Gas 5895 to 5896 Chert Fundamental 5860 5995 94/10 Water 2"					5345	The Notes	1 or ~ ~ 0 }	- '
Shale Brown 5425 5835 5836 Gas 5895 to 5896 5860 5995 94/10 Water 2"				5345	5400		ANGUAL VI	•
Shale Brown 5835 5835 Gas 5895 to 5896 Chert Hunter 2"		Tulley			5425			
Shale Brown 5835 5835 5860 Gas 5895 to 5896 5860 5995 94/10 Water 2"	i i			5425	5835			
Chert - Hunter 2" 5835 5860 Gas 5895 to 5896 5860 5995				5835	5835			
Chert - Hundertaille 5860 5995 94/10 Water 2"	-Lime - 🖯 🖔	bulance	=			Gas	5895 to	5896
	-Chert -	werede	W.C.			1	tar 211	7090
	. , -		The state of the s		1 2 2 2 2			170 TO 00 - 34

Formation	Color	Hard or Soft	Top 22	Bottom	Oil, Gas or Water	Depth Found	Remarks
Break - No Sand - Ox Total Dep	EDMORE ISKANY th	A.	5995 6009 6130	6009 6130	Gas 92/10 W Gas 94/10 M	6020 in 2" 6129 2" = 1,516 Ma	6022: 6130 F national
		•					
			1000 1000 1000 1000				
•							
			And the second s				
		Section 1					
	Property				2.72		
5 6 3 5 2 4 2 0							
	,					PANY NO. 9	- A
		· .		Ву		(Title)	1

Da	te September 24	62
APPROVED UNION	GAS COMPANY NO. 9	Owner
В Ф	and white the later	
•	(Title)	

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

ı	Well type : (a) O	— If Gas: Production		$\frac{\text{Gas} X}{\text{Cound}}$	<u>y</u> C	pered 03/3/	131197 1/99
			ep <u>X</u> /	Shallow 475		ENVINO	Elle
1	Proposed Target For				•	MAD	SI PORTO
) 6)	Proposed Total De					MAR 14	190-
7)	Approximate fresh	water strata depti	hs ; 220) feet		Office Of Oil P	~37
8)	Approximate salt	water strata depths	s : <u>NO</u>	NE RECORDED)	Office of Oil & Ga	<u>s</u>
9)	Approximate coal	seam depths:	NONE REC	CORDED			
10)	Does land contain	n coal seams tri	ibutary to a	active mine?	Yes/ No _	x Eps	woodule
11) 1 2)	Proposed Well Wo The well will be reperfore	ork: Columbia proposes ated, acidized or fractured CASING AND	depending on log	results. Cleaned up, f	oiled tubing. The wallow tested & place I	vell will be logged with ca back in service.	ased hole logs.
	ТҮРЕ	SPECIFICATION	NS .	FC	OTAGE INTI	ERVALS	CEMEN
				Weight	For	Left in	77:11
		Size	Grade	per ft.	drilling	well	
	conductor	Size 13-3/8"	Grade	_	_		(cu. ft
	conductor Fresh Water		Grade	_	drilling	well	(cu. ft
		13-3/8"	Grade	_	drilling 38'	well 38'	(cu. ft
	Fresh Water	13-3/8"	Grade	_	drilling 38'	well 38'	(cu. ft Unknown Unknow
	Fresh Water Coal	13-3/8" 10-3/4" 8-5/8"	Grade	per ft.	drilling 38' 582' 2,736'	well 38' 582' 2,736 5,855'	Unknown Unknow Unknow Unknow 50 sks
	Fresh Water Coal Intermediate	13-3/8" 10-3/4" 8-5/8" 7"		per ft.	38' 582' 2,736' 5,855'	well 38' 582' 2,736 5,855'	Unknown Unknow Unknow 50 sks
	Fresh Water Coal Intermediate Production	13-3/8" 10-3/4" 8-5/8" 7"		per ft.	38' 582' 2,736' 5,855'	well 38' 582' 2,736 5,855'	i .
PA	Fresh Water Coal Intermediate Production Tubing Liners CKERS: Kind	13-3/8" 10-3/4" 8-5/8" 7"		per ft.	38' 582' 2,736' 5,855'	well 38' 582' 2,736 5,855'	Unknown Unknow Unknow 50 sks

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

Fred Division of Environmental Protection

MAR 1 4 1997

1) Date: <u>1/31/97</u>

2) Operator's well number

TERRA ALTA SOUTH WELL 7514

3) API Well No: 47 - 077 - 00094 -W
State - County - Permit

Permitting
Office of Divergenia - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner (s) to be served:	5) (a) Coal Operator:
a) Name <u>Beverly A. Shay</u>	Name
Address PO Box - 15 Aurora, WV 26705	Address
Aurora, WV 26705	//\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
b) Name Rex A. and Beverly A. Nice	(b) Coal Owner (s) with Declaration
Address PO Box - 15 Aurora, WV 26705	NameSAME
Aurora, WV 20705	Address
c) Name <u>Deborah L. Knotts Delauder</u>	
Address 352 Sanders Street Terra Alta, WV 26764	Name
Terra Alta, WV 25/64	Address
6) Increates Obillia Taxan	. UM
6) Inspector Phillip Tracy	(c) Coal Lessee with Declaration
Address Route 2, Box 37-A	Name
Montrose, WV 26283	Address
Telephone (304) - 636-8/98	
Montrose, WV 26283 Telephone (304) - 636-8798 TO THE PERSON(S) NAMED ABOVE T Included is the lease or leases or ot contracts by which I hold the right to exX_Included is the information required by 8 (d) of the Code of West Virginia (see particular of the code of this notice and a accompanying documents pages 1 through	AKE NOTICE THAT:
contracts by which I hold the right to ex_X_Included is the information required by	tract oil and gas <u>OR</u> Chapter 22, Article 6, Section
8 (d) of the Code of West Virginia (see page 1)	age 2)
I certify that as required under Chapt	ter 22 of the West Virginia Code
I have served copies of this notice and a	application, a location plat, and
accuments accuments pages i unough	on the above named parties by:
Personal Service (Affidavit atttached	d)
X Certified Mail (Postmarked postal	receipt attached)
Publication (Notice of Publication	attached)
***************************************	,
I have read and understand Chapter 22-6	and 38 CSR 11-18, and I agree
to the terms and conditions of any permi	t issued under this application
i ceruity under penalty of law that I ha	ave personally examined and am
familiar with the information submitted on the	nis application form and all
attachments, and that based on my inqui	ry of those individuals immediately
responsible for obtaining the information, I k	ry of those individuals immediately
is true, accurate, and complete.	believe diat die information
I am aware that there are significant	nonalting for automitting for
information including the possibility of fine	and imprisonment
information, including the possibility of fine and imprisonment.	
Well Operatori CONUMBIA GAS TRANSMISSION CORP. By: // / / / / / / / / / / / / / / / / /	
by: // / /	
Address D.	rage Engineer / Well Services
AddressRo	ute 3, Box 216
EII	kins, WV 26241
Telephone U	71
Subscribed and sworn before me this 377	day of <u>February</u> , 19 <u>97</u>
X-11.	1 last
Taluesa a. Il	Notary Public
My commission expires	1991
	OFFICIAL SEAL
	OFFICIAL SEAL NOTASY PUBLIC
	STATE OF VICTOR LOGINA
	P O. BOX 1273
	CHARLESTON, WEST VIRGINIA 25225-1273 My Commission Expires August 12, 1997
	Manager 12, 1997