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API # 47- 51-J0511 W

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

Well Operator's Report of Well Work

Office of Co

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Farm name: STAHARA, ANDREW J

Operator Well No.: L 4780

LOCATION:

Elevation: 1226.00

Quadrangle: WILEYVILLE

WV Division of Environmental Protection

Bbl/d

District: LIBERTY

County: MARSHALL

Latitude: 3050 Feet South of 39 Deg. 45Min. 0 Sec. Longitude 3130 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION

1700 MacCORKLE AVENUE S.E.

CHARLESTON, WV 25314-0000

Agent: ROBERT C. WEIDNER

Inspector: RANDAL MICK

Permit Issued: 10/22/92

Well work Commenced: 11/13/92 Well work Completed:

Verbal Plugging

Permission granted on: n/a

Rotary Cable Rig
Total Depth (feet) 2294'
Fresh water depths (ft)

not recorded Salt water depths (ft)

±1200 Is coal being mined in area (Y/N)?N Coal Depths (ft) 926 (PITTSBURGH COAL)

Casing	Used in	Left	Cement Fill Up Cu. Ft.	
Tubing	Drilling	in Well		
Size		 		
13-38/"	30'	30'	30 SX	
<u>8-5/8"</u>	995'	 ₉₉₅	550 SX	
5-1/2"		 2294 <i>'</i>	600 SX	

OPEN FLOW DATA

STORAGE

PXXXXXXXXX formation MAXTON SAND Pay zone depth (ft) 1948' Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow MCF/d Final open flow Time of open flow between initial and final tests_____ Bbl/d Hours Static rock Pressure _psig (surface pressure) after Hours

Second producing formation (OPEN FLOWS NOT TAKEN)

Pay zone depth (ft)

Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests

Static rock Pressure _____psig (surface pressure) after

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.

Reviewed.

Date:

By: Recorded.

Activity:

- 9/14/92 Atlas Wireline perforated Maxton Sand 1952'-1976' (GR) with an additional 2 holes/ft., storage zone now has shot density of 6 holes/ft.
- 11/31/92 Halliburton foam fractured Maxton Sand w/75 quality foam: breakdown was 2665 psig; used 43,000# 20/40 sand 207 bbl of water; Avg. treating pressure: 2550 psig; I.S.I.P: 1742 psig.

note: Geological well log remains the same as previously submitted.

88EKI



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS DIVISION Quadrangle Littleton WELL RECORD MARS-511 Oil or Gas Well Permit No. The Mfrs. Lt. and Ht. Co. Company_ Used in Drilling 800 Union Trust Bldg., Pittsburgh 19, Pa. Casing and Tubing Packers Address Hazel Teagarden Farm Size Location (waters). Kind of Packer.... Well No 4780 1229.00 Elev. 30' 3/8" 301 Marshall Liberty County_ Size of_ The surface of tract is owned in fee by_ 8¥ 5/8" 9951 9951 Depth set Mineral rights are owned by___ 23041 23041 5 3/08 1/2" Address August 5, 1963 Perf. top... Drilling commenced___ August 14, 1963 Perf. bottom_ Drilling completed___ Date Shot 8/14/63 From Marton To Liners Used With Pitot Tube Perf. bottom. Open Flow /10ths Water in___ _Inch 4 1/2 34/10ths Merc. in_ _Inch CASING CEMENTED____SIZE____ _No. Ft____ Date 3,550,000 COAL WAS ENCOUNTERED AT 926 FEET INCHES _bbls., 1st 24 hrs. _INCHES___ FEET___ INCHES FEET_ Fresh water_ INCHES. INCHES Salt water_ feet FEET. FEET. Hard or Soft Oil, Gas or Water Depth Found Formation Color Remarks Top **Bottom** 926 933 1483 Pittsburgh Coal 1410 Big Dunkard Sand First Salt Sand 2nd CR. 1634 1615 Third Salt Sand 1827 1854 Perforated 1952' to 1976' 1948 1976 Maxton Sand 2052 2084 Big Lime Big Injun Band 2086 22941 Total Depth T052 2304' 5½" Float Shoe @ 5년 "Insert Float Check Valve @ 2294 '

14586

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FORM V	₩-2B	DEPART	MENT OF		VIRGINIA VISION OF O APPLICATION		10/22/92 age 1 of 1
1) We	ell Ope	erator:	COLUMBIA	A GAS TRANSMI	SSION CORP.	10450(4)	680
2) Op	erato	r's Well	Number:_	L - 4780	***************************************	3) E:	levation: 1226
4) We	ell ty	oe: (a)	0i1_/	or Gas	5 <u>X</u> /	\supset	
		(b)	If Gas:	Production Deep		round Storag	
5) Pos	spoge i	k Target	Formation	n(s): <u>M</u> a	exton Sand	·	
6) Par	DESCRIPTION OF REAL PROPERTY OF THE PROPERTY O	x Total D	epth: 2	294	feet		
7) Ap	proxi	mate fres	h water s	strata dept	hs: not re	corded	
8) Ap	proxim	mate salt	water de	epths: # 1	.200'		· · · · · · · · · · · · · · · · · · ·
9) Ap	Approximate coal seam depths: Pittsburgh Coal - 926'						
10) Do	10) Does land contain coal seams tributary to active mine? Yes/ No $_{\underline{x}}$ /						
11) Pr	11) Proposed Well Work: Fracture the Maxton Sand to increase deliverability.						
12) CASING AND TUBING PROGRAM							
TYPE		s	PECIFICAT		FOOTAGE II	UTTOWNIC	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conduct	or	1343/8"	Н	48	30'	30 '-	
Fresh W	ater					Charles of	
Coal		8-5/8"	J	24	995'	995'	550 sks.(to surf
Interme	diate				4	Lake V	
Product	ion	5-1/2"	J	17	1	2294'	600 sks.(to surf
Tubing							
Liners	iners RECEIVED						
PACKERS: Kind none Wy Division of Environmental Protection							
Sizes							
Fae(s) paid: Well Work Permit III Reclamation Fund WPCP							

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OCT 0 7 92

1) Date: 9/21/92
2) Operator's well number L-4780

Permitting

Office of Oil & Gas 3) API Well No: 47 - 051 - 00511 -FRAC

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:	5) (a) Coal Operator:
4)	(a) Name Andrew J. Stahara et aux	Name
	Address RD 5, Box 174	Address
	Cameron, WV 26033	nacted)
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name Consolidation Coal
		Address Consol Plaza, 1800 Washington RD
	(c) Name	Pittsburgh, PA 15241
	Address	Name
		Address
6)	Inspector Randal Mick	(c) Coal Lessee with Declaration
σ,	Address Rt. 3, Box 248	Name
	Weston, WV 26452	Address
	Telephone (304) - 269-2335	Addicas
	TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT.
	10 IND LONGON (D) WANDON	DOVE TAKE NOTICE THAT.
	Included is the lease or leases o	a other continuing contract or
	racts by which I hold the right to	
	Included is the information requi	
Sect	ion 8(d) of the Code of West Virgi	
		Chapter 22B of the West Virginia Code
		d application, a location plat, and
acco		on the above named parties, by:
	Personal Service (Affidavit	
	_x Certified Mail (Postmarked p	
	Publication (Notice of Publi	cation attached)
		r 22B and 38 CSR 11-18, and I agree
to t		mit issued under this application.
	I certify under penalty of law th	at I have personally examined and am
fami	liar with the information submitte	d on this application form and all
atta	chments, and that based on my inqu	iry of those individuals immediately
resp	onsible for obtaining the informat	ion, I believe that the information
	rue, accurate, and complete.	
	I am aware that there are signifi	cant penalties for submitting false 🛫
info		
13	NOTARY STATE Well Operator	of fine and imprisonment. COLUMBIA GAS TRANSMISSION CORP.
	NOTARY PUBLIC Well Operator	
	MARY PARSONS Its: Director	r, Drilling & Maintenance
	2052 Linear	
•	St. Albams, West Virginia 25177 My Commission Front 25177	
·····	LITAT	leston, WV 25325-1273
C b -		04-357-2459
Subs	scribed and sworn before me this 2	pay or xagrement, 1972
	$AYIn. \leftarrow$	the same of
	and the second of the second	Motary Public
mv C	commission expires VIII. 16	, , , , , , , , , , , , , , , , , , , ,