

9-0 261 DEP WELL

Soristany Storage

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isdrangle Horton



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

Rotary	a
Spudder	
Cable Tools	П
Storage	

WELL RECORD Gas Storage Oil or Gas Well... mit No. RAN .- 127 Casing **and** Tubing Used in Drilling Left in Well mpany Atlantic Seaboard Corporation Pschero dress P.O. Box 1273 Charleston, W. Va. 25325 Ly C.A.Crim, et al m. (W.S.A. Tr. 32 Surface) Acres -cation (waters) White Run Size Kind of Packer. 16 47 0 Cemented ell No. X-77-7470 Elev. 3264.03° Size of strict Dry Fork County Randolph 1491' Cemented 8th 9~5/8 ne surface of tract is owned in fee by 686 712 · 4980 Cementavii set Address ineral rights are owned by Elizabeth A. Crawford Vilseck; 3/16 La South Randolph Staddress Elkins, W. Va. 28241-44 rilling commenced 7-16-66 Perf. top 51871 Perf. bottom..... rilling completed 7-24-56 Liners Used Perf. top..... nie Shot To Perf. bottom Attach copy of cementing record. pen Flow /10ths Merc in _____Inch CASING CEMENTED SIZE No. Ft. Date olume 32,510,000 - Oriskany Cu. Ft. Amount of cement used (bags) Name of Service Co. COAL WAS ENCOUNTERED AT FEET WICHES il.....bbls., 1st 24 hrs. FEET INCHES FEET INCHES 'ELL ACIDIZED (DETAILS) FEET INCHES FEET INCHES VELL FRACTURED (DETAILS)

ESULT AFTER TREATMENT (Initial open Flow or bbls.) OCK PRESSURE AFTER TREATMENT HOURS Salt Water.

resh Water reducing Sand			· · · · · · · · · · · · · · · · · · ·	SIR WEEL	Depth	recurrence	
Formation	Color	en de transportence de la companya del la companya de la companya de la companya del la companya de la companya de la companya del la		Bottom	Oil, Gas or Water	Depth	Remarks
arface and & Shele hale and hale and & Shale and & Shale hale ally kime breellus handaga hart hale riskany alderberg	≱.	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	0 30 220 455 665 995 1425 1635 3490 4495 4840 4840 4900 4973 5180	30 220 455 665 995 1425 1635 3490 4470 4495 4800 4840 4900 4973 5180	Gas 5135' i When drilli spring gau Test before thru 4" 5, Acidized 8- overflushe	stimated 750 ncreased ng completed ge thru 4" 5 acidized 4# 690 M 2-66 with 12 d with 4,000 acidized 76#	gas tested 4
		222709			Shut in 8-	3-66	

23893

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

1)	Well Operator:	COLU	IMBIA GAS II	RANSMISSION .	CORPORATI	ON 10430	(=) 267			
2)	Operator's Well	Number : Glady	Stg # 7470 (API 4	7-083-00127) 3)	Elevation:	3,264.03 feet	Ī			
4)	Well type: (a)	Oil/	or	Gas_X_/	Expres	07/07/99	4 7			
			etion/ Undergr Deep _X_/	Shallov	<u>(</u>	B.				
5)	Proposed Target Fo	rmation (s):		Oriskany	· · .					
6)	Proposed Target Formation (s): Oriskany Proposed Total Depth: Cleanout to Original TD 5,190' KB Approximate fresh water strata depths: water noted @ 165' on original driller's record Approximate salt water strata depths: pone recorded									
7)	Approximate fresh	n water strata o	lepths: wat	er noted @ 165' o	on original drill	er's record	্য হি ন্তু			
8)	Approximate salt	water strata de	pths:	none recorded						
9)	Approximate coal	seam depths :_			NONE	***************************************				
10)	Does land conta	in coal seams	tributary to	active mine?	Yes/ No	<u>X</u> /				
11)		wellhead. The we be acidized across	Il will be cleaned o the Oriskany section	ut to original TD. on. The well will t	The well will b	sed mud system. Renoe logged with cased up, flow tested and p	and open hole			
	TYPE	SPECIFICAT	ND TUBING I		OOTAGE IN	TERVALS	CEMENT			
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill - up (cu. ft.)			
	Conductor	13-3/8"	H-40	48#	41'	41'	20 sacks reg. w/ 3% CaCl			
	Fresh Water	9-5/8"	H-40	32#	1,491'	1,491'	460 cu ft Litepoz 100 cu ft regular			
	Coal									
	Intermediate	O THE STATE OF THE								
	Production	7"	J-55 & N-80	23#	4,980'	4,980'	200 cu ft litepoz 500 gals latex			
,	Tubing	2-3/8"	J-55 (TO BE RETIRED)	4.7#	5,187	5,187	-			
	Liners									
<u>PA</u>	CKERS : Kind	None								
	Sizes Depths	set								
ما ر	179/19			ion of Oil and						
	Fee (s) paid: Plat	Well W /W - 9	Vork Permit WW - 2B	Reclamation F Bond			PCP ent			
					(Type)					

P	age	7	of
F	orm	WW	2 - A
1	6/94)		
	File	Co	ру

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1)	Date:	5/14/97	
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2) Operator's well number **GLADY WELL 7470**

3) API Well No: 47 - 083 - 00127 State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

Surface Owner (s) to be served a) Name <u>United States Forest</u>	Service Name
Address Monongahela National	
P. O. Box 1548, Elkins, \ b) Name	
Address	
	Address P.O. Box 631
c) Name	
Address	Name
	Address
6) Inspector Craig Duckwort	(c) Coal Lessee with Declaration
Address Box 107, Daviss	son Route Name
Gassaway, WV	<u> 26624 - 0107 </u>
Telephone (304) 626 - 0789	
TO THE PERSON (S) NAM	ED ABOVE TAKE NOTICE THAT:
	ses or other continuing contract or contracts by which I hold
the right to extract oil and gas	required by Chapter 22, Article 6, Section 8 (d) of the Code of West
	equired by Chapter 22, Article 0, Section 6 (d) of the Gode of West
Virginia (see page 2)	nder Chapter 22 of the West Virginia Code I have served copies of
this nation and application along	tion plat, and accompanying documents pages 1 through on
	non plat, and accompanying documents pages i dirough on
the above named parties, by:	Educate added to all
Personal Service (Af	
	narked postal receipt attached)
Publication (Notice of	of Publication attached)
	01 1 2000 and 00 000 44 40 and 1 areas to the terms and
	Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and
conditions of any permit issued und	
I certify under penalty of la	w that I have personally examined and am familiar with the
information submitted on this applic	cation form and all attachments, and that based on my inquiry of
	onsible for obtaining the information, I believe that the information
is true, accurate, and complete.	
	nificant penalties for submitting false information, including the
possibility of fine and imprisonment	
red per	Well Operator COLUMBIA GAS TRANSMISSION CORP.
	By: William H. Fnaker
The Mis	Its: Senior Storage Engineer / Well Services
CHICK DOWNING WERE	Address Route 3, Box 216
Moral 1453 - 6 Km 1 1 2 3 3 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3	Elkins, WV 26241
Catalogical State of the state	Telephone
Spaggibed and sworp before me_	
Son of Explication	2 atricea la Calper Notary Public
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My commission expires	Af when the second
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07-Jul-97 API # 47- 083-00127-W

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

Reviewed.

WV Dit	distant of the Protection	Well Operat	or's Report	of \	Well Work			
	U. S. FOREST S	SERVICE	0	pera	ator Well No.	: GLADY	7470	
LOCATION:	Elevation:	3,264.03′	Quadrang	ıle:	GLADY			
	District: DRY For Latitude: Longitude:	3.250 Fe	et South	OT	County: R. 38 Deg. 79 Deg.	47 Min.	30 Sec. 0 Sec.	
P.O CHA Agent: RICHA	JMBIA GAS TRAN . BOX 1273 ARLESTON, WY RD L. COTY HILLIP TRACY ed:	/ 25325-127	3		& :Up	Used in Drilling	Left in Well	Cement Fil Cu. Ft.
Well work Well work Verbal Plugg Permission g Rotary Total Depth Fresh water	Commenced: Completed:	7/09 09/1 Rig 5,190' See Origina	1/97 2/97 Records	-	EUE TUBINO	ETIRED 5,187		
Is coal be	ing mined in	area (Y/N) ? <u>N</u>					
Gas : Static Second prod Gas :	cing formation Initial open Final open Time of o rock Pressu ducing formatic Initial open Final open	flow160' flow192' pen flow b re199 on flow pen flow b	99 MCF/d 99 MCF/d etween init 7 psig (sMCF/dMCF/d etween init	Oil Fi tial urfa F d tial	l : Initial nal open and final ce pressur Pay zone Oil : Initia Final and final	open flow _ flow tests e) after depth (ft) I open flow open flow tests	Bbl/d Bbl/d 423 [4	Days Hours Hours —Bbl/d Bbl/d Hours
NOTE: ON B INTERVALS, LOG WHICH	ACK OF THIS FRACTURING (IS A SYSTEMA COAL ENCOUN	FORM PUT OR STIMULA TIC DETAILE TERED BY	THE FOLL TING, PHYS D GEOLOGI THE WELLBO	OW: ICAI ICAL ORE	ING: 1). DET L CHANGE, . RECORD (TAILS OF PEI ETC. 2). TH OF ALL FORM	RFORATED HE WELL	
		For: COL	'OWRIY GY	2	I KANDINTOOT	ON CORP.		

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

Well Operator's Report of Well Work

STIMULATION

- Acidized on 09-10-97
- Halliburton Foamed Acid Job.
- Pre-flush with 1,008 gals equivalent 15% Halliburton 75 Quality FE Foamed Acid followed by 8,694 gals equivalent 75 Quality Foam.
- Treated with 9,912 gals equivalent 20% Halliburton 75 Quality FE Foamed Acid followed by 9,912 gals equivalent 15% Halliburton 75 Quality FE Foamed Acid. Flushed with 13,986 gals equivalent 75 quality foam and 840 gals H2O.
- Avg. Rate Approx. 20 BPM @ 2200 PSIG
- Total acid 3,465 gallons 28% Halliburton FE acid (uncut).
- Total nitrogen 784,000 scf.
- Additives: 34 gals FE-1A; 12 gals-HAI-81; 4 gals-SCA-130; 3 gals-FE5A; 12 gals-HC2; 18 lbs BA-2.