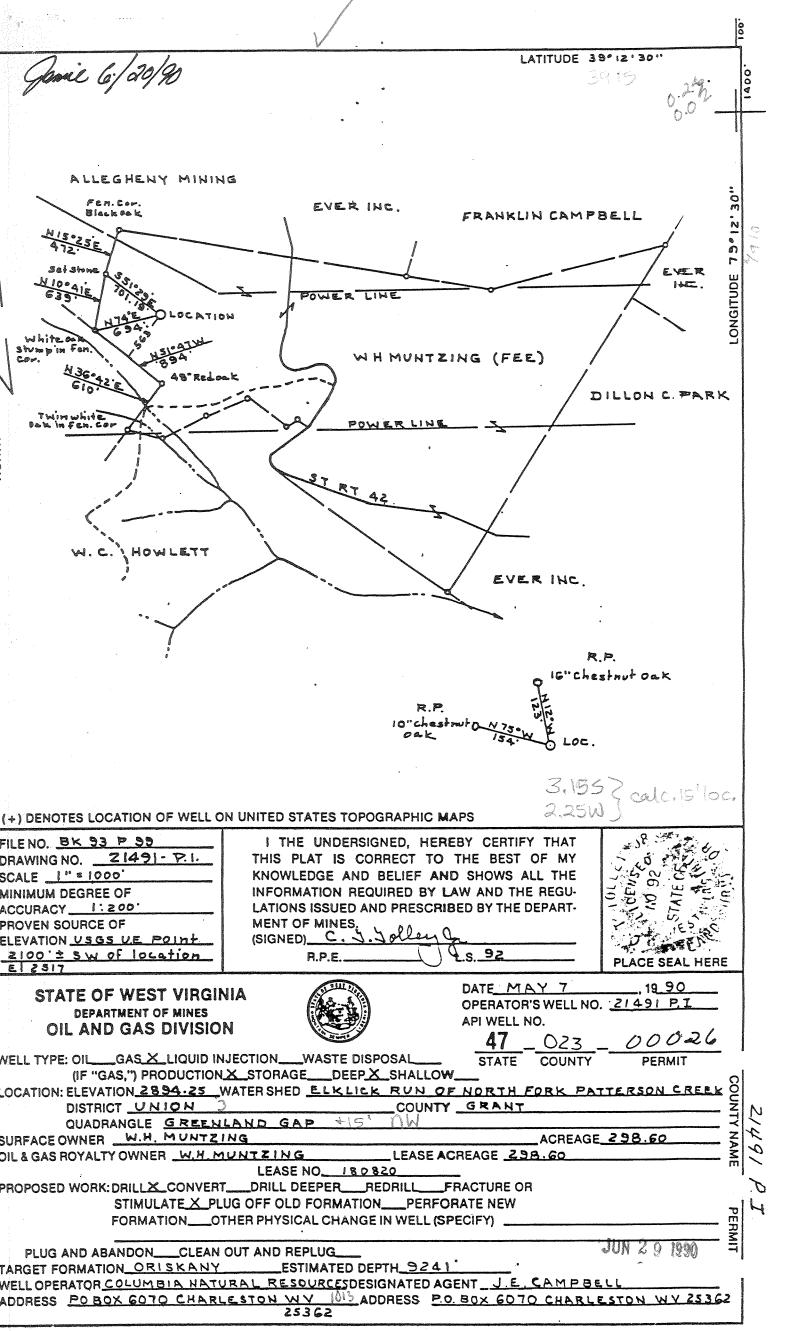


DEEP WELL.

6-0 (370



LECEN" ADR 11 1991 DEPT. OF ENERGY

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: MUNTZING, L. MANNING

Operator Well No.: 21491

LOCATION:

Elevation: 2894.25 Quadrangle: GREENLAND GAP

District: UNION

County: GRANT

Latitude: 1400 Feet South of 39 Deg. 12Min. 30 Sec. Longitude 100 Feet West of 79 Deg. 12 Min. 30 Sec.

Company: COLUMBIA NATURAL RESOURCE P.O. BOX 6070

CHARLESTON, WV 25362-6070

Agent: JOSEPH E. CAMPBELL

Inspector: PHILLIP TRACY

06/25/90 Aug. 5, 1990 Permit Issued: Well work Commenced: Well work Completed: Sept. 1, 1990

Verbal Plugging

Permission granted on: 12/6/90 Rotary_X Rotary X Cable Total Depth (feet) 9914 Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)? N Coal Depths (ft):

Casing	Used in	Left	Cement
Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size			
13-3/8	87	87	60
9-5/8	2942	2942	921
5-1/2	9914	9914	200
	th while state when went, was suppressing stage was any		
İ			

OPEN FLOW DATA

Well P & A 12/6/90

Producing formation		Pay	zone depth	(ft)	
Gas: Initial open	flow338 MCF/d	Oil: Initial	open flow		Bbl/c
Final open fl	ow MCF/d	Final o	pen flow		Bbl/d
Time of open	flow between ini	tial and fina	l tests		Hours
Static rock Pressu	repsig	(surface pres	sure) after		_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 be	etween initial	and final tests		Hours
Static rock Pressure	psig (surf	ace 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.

For:	COLUMBIA NATURAL RESOURCES,	INC
	By: Jank Gill	
	Darail	

MAY 20 1991

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

copies if respective	required) shaddresses.	nould l	be ma	iled	to	eac	h co	al	opera	ator	at	their
Farm name:	MUNTZING,	L. MANN	ING	OI	pera	tor	Well	No.:	2149	1		
LOCATION:	Elevation: District: Latitude: Longitude	2894.2 UNION 1400 100	5 Q Feet Feet	uadrar South West	of of	: GR Cc 39 79	EENLA unty: Deg. Deg.	ND G GRA 12 M 12 M	AP NT in.	30 Se	ec. ec.	
Well Type:	OIL	GAS	X									Muntzing
P	olumbia Natura . O. Box 6070 harleston, WV	25362-0	070	-	or	Owne	r	P. Bak	O. Bo	x 67 V 2	6801	Muntz
Agent: J Inspector: Permit Issu	Phillip Trued: 05/06/9	ell acy 1	F		Coa or	l Op <u>Owne</u>	erato <u>er</u>	Р.	H. Mur O. Bor er, W	x 67		& B.
			Ä	FFIDA	VIT							
County of _	EST VIRGINIA Kanawha		ss:						•			
first duly in the wor	arvin Grayson sworn acco k of pluggi tural Resource ugging and	rding t ng and s, Inc.	o law filli	nd depoing oi	se a l an l o	nd s d ga	L. L. I say th as wel ator,	Friendat to la	hey and w part	are o	experemplo	being ienced by in the
on the and filled	ugging and 6th day in the foll	οτ <u>ν</u> ο owing	manne	r,	199	<u>U</u> , a	that and th	iat t	TITE W	CII	s con was p LEI	pragged
5 Bridge P	lug @ 9750 lSK op each Plug lug @ 8960		(13-3/8		•			-
Cut 5½" @ 8	/ 55	88.	50		8740		5-1/	2" CS	g. 874	407	11	74
Cement Plug Cement Plug Cement Plug		480 290	00		5000 3000				Toti		1 1	
	ption of mo			Inspec			 struct:	ions	1/1/1		6/4	[9]
and th	nat the wor day ofD	k of p	luggi	ing an	d fi				ell w	as c	omple	eted on
And furthu	deponents	saith n	ot.			7 V	Jarn	Th.	Jeno.	3		
	subscribe be ion expires:				d	lay of	spen V.	In	_g Ma rlck			19 <i>9/</i>
		V				'/		Nota	ary P		c M 7	1001

WELL 21491

Formations

9745 - 9914

- 9914

0 - 3174	(Red, Gray Sand and Shale) Fresh water at 119'
3174 - 4954	Foreknoks
4954 - 7015	Scherr
7015 - 8162	Brallier
8162 - 8302	Harrell
8302 - 8310	Tully
8310 - 8706	Mahantango
8706 - 8888	Upper Marcellus
8888 - 8970	Purcell
8970 - 9084	Lower Marcellus
9084 - 9122	Tioga Mehab.
9122 - 9456	Needmore
9456 - 9745	Oriskany

Helderberg

023-0026 Descred 6/25/90

Page 3 of 4

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

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

1) Well Op		Co.	lumbia Natura	13	Inc. 104/ 0 /	3) 383
2) Operato:	r's Well 1	Number:	2149		3) Ele	vation: <u>2894.</u> 2
4) Well ty	pe: (a) (oil_/	or Gas	<u>X</u> /		
	(b)	If Gas:		n <u>X</u> / Undergi	ound Storage Shallow	
5) Propose	d Target	Formation		skany 475		
•			9241			1
		-		:hs:	26', 10	6
	·				1 0	
					2	
					/ ive mine? Ye	s / No X /
			ll Gas Well 8	_	/ / .4	and the second s
12)					Now Well	
		CASI	NG AND TUB	NG PROGRAM	Maw Will Defreel	
TYPE	S	PECIFICAT	rions	FOOTAGE IN	NTERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up
Conductor	13-3/8	H	48	45	45	(cu. ft.)
Fresh Water				+5	77.	38CSR18113
Coal					Y	3858.18112
Intermediate	9-5/8	J	40	3000	3000	940
Production	5-1/2	N	17	9241	9241	435
	3-1/2			3241	3241	38581411.1
Tubing						
Liners			1		1	(
/ U -	zes					
\15 De	pths set					
16	F	Diviso	on of Oil a	and Gas Use	Only	M
_ Fee(s)	paid:	We11 1	Work Permit	Rec!	lamation Fund	WPCP
Plat 4	WW-9	WW.	-2B F	Bond Jen	ty Starfel	Agent

Form (09/8	1 of 4 WW2-A 7) Copy DEPARTMEN	2) 3) STATE OF WEST	Date: June 4, 1990 Operator's well number 21491 API Well No: 47 - 023 State - County VIRGINIA VISION OF OIL AND GAS	
	NOTICE AN	D APPLICATION F	OR A WELL WORK PERMIT	
4)	Surface Owner(s) to (a) Name <u>L. Manning</u> Address <u>P. O. Box 6</u> Baker. WV	Muntzing 7	5) (a) Coal Operator: NameAddress	
	Address P. O. Box 6 Baker, WV	7 26801	(b) Coal Owner(s) with D Name <u>Same as Land Owner</u> Address	eclaration
	(c) NameAddress		NameAddress	
6)	Inspector Phillip Tra Address Route 2, Bo Montrose, W Telephone (304) - 45	<u>V 26283 </u>	(c) Coal Lessee with Dec Name Address	
Sect:	Included is the lead acts by which I hole Included is the information 8(d) of the Code I certify that as reserved copies of apanying documents property in the personal Serving Certified Mail	se or leases or d the right to ormation requir of West Virgin equired under C this notice and ages 1 through ce (Affidavit a	hapter 22B of the West Vi application, a location 4 on the above named pa ttached) stal receipt attached)	e 1, rginia Code plat, and
familattadrespois tr	te terms and conditing and conditing the certify under pendiar with the information and that backnished for obtaining the condition, accurate, and continue, accurate, and continue that the condition, including the conditions of the conditions and conditions are that the conditions are the conditions.	ons of any perm alty of law tha ation submitted sed on my inqui g the informati omplete. re are signific he possibility	22B and 38 CSR 11-18, an it issued under this appl t I have personally exami on this application form ry of those individuals i on, I believe that the in ant penalties for submitt of fine and imprisonment.	ication. ned and am and all mmediately formation ing false
OF Buy yrakt	FICIAL SEAL LC. STATE OF WEST VIRGINIA PHEN V. SMOLDER P. O. BOX 6070	By: Krzechic	Eolumbia Nazural Resources, I ident, Drilling and Production P. O. Box 6070	
MY COMM	RLESTON, WV 25362 SSION EXPIRES 05 - 25 - 98 Principal and swood be f	Telephone ore me this 6	Charleston, WV 25362 304/353-5000 day of	, 19 <u>90</u>
Мус	ommission expires	May 25, 1	1998 No	tary Public