







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

Well Operator's Report of Well Work

Farm name:

RAINES, ALBERT

Operator Well No.: 21773-TPI

LOCATION:

Elevation: 2877.39 Quadrangle: CIRCLEVILLE

District:

Latitude:

UNION County: PENDELTON
1400 Feet South of 38 Deg. 45Min. 0 Sec.
1150 Feet West of 79 Deg. 27 Min. 30 Sec.

Longitude

Company: COLUMBIA NATURAL RESOURCES, INC. P. O. BOX 12XXX 6070 Casing | Used in | Left Cement CHARLESTON, WV 2X5X3X25XXXXQQD Fill Up δ Tubing | Drilling | in Well|Cu. Ft. 25362 Agent: JOSEPH E. CAMPBELL Size Inspector: PHILLIP TRACY Permit Issued: 04/21/89 <u> 13-3/8"</u> 43 43 30 Well work Commenced: 09/07-89 Well work Completed: <u>09/30/89</u> Verbal Plugging 9-5/8" 1998 1983 621 Permission granted on: Rotary X Cable
Total Depth (feet)
Fresh water depths (ft)
Damp 0 182'; 1/4" stream 0 2
Salt water depths (ft) Rig 5-1/2" 8210 8202 356 Is coal being mined in area (Y/N)? N Coal Depths (ft):

OPEN FLOW DATA

Producing formation	Oriskany	Pay zone dept	th (ft)7622-7815
Gas: Initial open flow	_ MCF/d O	il: Initial open flo	ow - Bb1/d
ringr Oben trow	1380 MCF/d	Final open flow	n 5 1 / J
Time or open ifom	between initi	al and final tecto	70 17000
Static rock Pressure	<u> 1900 </u>	urface pressure) aft	er 72 Hours
Second producing format	ion	Pay zone dept	h /f+1
Gas: Initial open flow	MCF/d O	il: Initial open flo	W Bb1/d
Final open flow	MCF/d	Final open flow	Ph I /d
Time of open flow	between initia	al and final tests	Hours
Static rock Pressure	psig (s	urface pressure) aft	er 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.

> > <u>Vice President, Drilling and Production Operations</u> Date: May 4, 1990

Well 21773-TPI

Fraced w/2746 bbls. X-Link gel, 160 sks 80/100 sand, 1804 sks 20/40 sand, 30 tons CO_2 - 523,740 Scf CO_2 , treated @ 24 bpm @ 4230 psi. Pumped 600 gals. 15% Fe acid, 34 bbls. 2% KCl water, formation broke down @ 3400 psi, treated formation @ 46 bpm @ 3500 psi.

Sand & Shale White Sand Red Rock Foreknobs Sand & Shale Foreknobs Scherr Brallier Harrell Shale Tully Shale Upper Marcellus Purcell LS Lower Marcellus Onondaga LS Needmore Shale Oriskany Helderberg	141 - 725	1
Loggers T. D. Drillers T.D.	7815' 8210'	

5704

Darried Hz1/89 Exprais 4/21/91

FORM WW-2B

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STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION Columbia Natural Possuress Inc. 1040, 6, 246

T) MeII Of	erator:	COTUIII	Dia Natural	Resources, In	1c.10 / 40/ 0/	NIW	
2) Operato	r's Well	Number:	21773-TPI		3) Ele	evation: <u>2860'</u>	
4) Well ty	/pe: (a)	0il_/	or Gas	<u> </u>			
	(b)	If Gas:	Production Deep	u <u>X</u> / Underg	round Storage Shallow		
5) Propose	d Target	Formation	(s):	riskany	grand . The state of the state		
6) Propose	Proposed Total Depth: 8100 feet						
7) Approxi	Approximate fresh water strata depths:						
8) Approxi	mate salt	water de	pths:				
9) Approxi	mate coal	seam dep	ths:	_			
10) Does la	nd contai	n coal se	ams tribut	ary to act	ive mine? Ye	es/ No_X_/	
11) Propose	d Well Wo	rk: Dril	l Deep Well				
12)		CASIN	G AND TUBI	NG PROGRAM			
TYPE	S	PECIFICAT	'IONS	FOOTAGE I	NTERVALS	CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Conductor	13-3/8"	H-40	48#	40	40	28	
Fresh Water						42	
Coal					Y	30/5R19-11, 22	
Intermediate	9-5/8"	J - 55	36#	2000	(172000)	630	
Production_	5-1/2"	N-80	17#	8100	8100	38CS1(18/11/ 252	
Tubing							
Liners				Port of contract of the statement	D) S(C	BIWER	
	nd		· · · · · · · · · · · · · · · · · · ·	•	AP	R 1 7 1989	
	zes pths set				DIVISIO	N OF OIL & GAS	
クシロ	F	or Diviso	n of Oil a	ind Gas Use	DEBARTA	IENT OF ENERGY	
Fee(s)	paid:	ZI Well W	ork Permit	Rec	lamation Fund	WPCP	
Plat	WW-9	M ww-	2B (#) B	Bond <u>50</u> 2	SlanDel (Type)	Agent	
	•	-			(TANG)		

Page 1 of Form WW2-A (09/87) File Copy



2)

Date: <u>March 7, 1989</u> Operator's well number

21773-TPI

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY 3)

API Well No: 47 - 071 - 00013 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:	E) (=) 0==3 0:
72 /	(a) Name Albert Deine	5) (a) Coal Operator:
	(a) Name Albert Raines	Name
	Address P. O. Box 54	Address
	Riverton, WV 26814	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name <u>Albert Raines</u>
		Address P. O. Box 54
	(c) Name	Riverton, WV 26814
	Address	Name Dewayne A. & Shelby Raines
		Address H. C. 3, Box 161
		Cross Junction, VA 22625
6 -)	Inspector	(c) Coal Lessee with Declaration
	Address	Name
		Mdrece
	Telephone (304)	Address
	rerepriore (50%)	
	TO THE DEDCOMICS MANDED AT	ONTE MAKE MOMEON MUAN.
	TO THE PERSON(S) NAMED AS	SOVE TAKE NUTICE THAT:
	Included to the land of	
	Included is the lease or leases or	other continuing contract or
Conti	racts by which I hold the right to	extract oil and gas <u>OR</u>
_ <u>_</u>	Included is the information requir	ed by Chapter 22B, Article 1,
Sect:	ion 8(d) of the Code of West Virgin	nia (see page 2)
	I certify that as required under C	Chapter 22B of the West Virginia Code
I hav	ve served copies of this notice and	application, a location plat, and
accor	mpanying documents pages 1 through	on the above named parties, by:
	Personal Service (Affidavit a	ittached)
	X Certified Mail (Postmarked po	
	Publication (Notice of Public	ration attached)
	I have read and understand Chanter	: 22B and 38 CSR 11-18, and I agree
to th	ne terms and conditions of any perm	it issued under this and I agree
	I certify under penalty of law tha	at I have personally examined and am
famil	liar with the information submitted	ic I have personally examined and am
	liar with the information submitted	on this application form and all
allal	indents, and that based on my inqui	ry of those individuals immediately
respo	onsible for obtaining the informati	on, I believe that the information
is tr	cue, accurate, and complete.	
	I am aware that there are signific	ant penalties for submitting false
infor	mation, including the poecibility	of fine and immuiation
	FICIAL SEAL Well Operator	AColumbia/Natural Resources, Inc.
	A BU LARRANTULE	Libell
	IC. STATE OF WEST VIRGINIA FIRST VICE Pre	esident, Drilling and Production Operations
	P. O. BOX 1073 Address	P. O. Box 1273
CHARLE	STON, W. VA. 05025	Charleston, WV 25325
NY COMMIS LELAS	Telephone	304/357-2000
Subsc	ribed and sworn before me this 10	
	Aterhan II	Andles &
My co	ommission expires May 25 1	998 Notary Public
,	may as 1	7 10

STATE OF WEST VIRGINIA **DEPARTMENT OF ENVIRONMENTAL PROTECTION** OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, 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.

Farm name:	Sites, Shir	· · · · · · · · · · · · · · · · · · ·	in destroyment and the second and th	Орег	ator Well N	o.: 82177	'3		
LOCATION:	Elevation: 2	077'		Ou	adrangle: C	Circleville			
		nion		Co	unty:	endleto	n	***************************************	
	Latitude: 1	nion 400	Feet So	uth of 38		Min	0	_Sec.	
	Longitude: _	1150	Feet W	est of 79	Deg. <u>27</u>	Min.	30	Sec.	
Well Type:	OIL 6	SAS X							
Company	Chesapeake	e Appalachia,	LLC C	oal Operato	ı				
	PO Box 1300		01	r Owner			***************************************	***************************************	NAME OF THE PARTY
	Jane Lew, WV	/ 26378	***************************************						
Agent	Eric B. Gille	espie	OI	Coal Operate Owner	or	Anna da antici i sa a anna anna anna anna anna anna a	s let materialis (desiré de la commune d		AMADON MANAGEMENT AND
Permit Issu	*******************************	05-02-2012			3*************************************	***************************************	***************************************	······································	TANKANIN TANKAN
		***************************************			***************************************		·····		***************************************
STATE OF IA	est virgini/	\ &\		AFFID	AVIT				
	loyd	•							
	,								
Rodney Osbor	ne	and Char	les Moore		<u></u> t	peing first o	duly swor	n according	to law depose
well operator		ted in the work	of plugg	ing and filli	ng the above	well say ti	hat said	work was co	above named ommenced on :
TYPE	FRO	om I	ТО	· · · · · · · · · · · · · · · · · · ·	PIPE REMO	VED		LEFT	
6% Gel	570		Surface		5508' of 2 3			2694° of 2 3/8	8"
C1A Cement	550	8'	5369'	İ	2127° of 51	2"		6075' of 5 1/2	2"
C1A Cement	346	6'	3340'					1998' of 9 5/8	3*
C1A Cement	298	9'	2870'		***************************************	***************************************		43' of 13 3/8	•
C1A Cement	213	****	1867		***************************************			-	
C1A Cement	254	l'	Surface			***************************************		***************************************	
Said well was of And further Sworn and sommission	deponents sait	th not. $\frac{1}{2}$ The second day the not. $\frac{1}{2}$ The region of the second day the second d	harles 2th day o	mon	20 <u>13.</u> 2013.	O.	HANOS CTAPY CT	TIG(ging and filling DEIVED 2 1 2013 of Oil and Gas vironmental Processor
Affidavit review	ed by the Offic	ce of Oil and G	as: <u>الم</u>	<u>~</u> [V	Desta D	victoria (1997), proposita de la constanta de c	Title:	- 1	<u>/ /03/24/2</u> 013