1)	Date:	Octobe	er 17	19_84
2)	Operator's Well No.	1233	3	
3)	API Well No.	47 -	109 - 0947	,g18 vo2
		State	County	Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A C	Oil	/ G	as	X			PIEICATIONS		
	В (1	If "Gas", I	Productio	n	X	Underground	d storage	/ Deep	_/ Shallow	X/)
5) LOCATIO	N: Ele	evation:	1829.	39'		Watershed:	Bans Branc	h		
			Oceana			County:	Wyoming	Quadrangle:	Oceana	
6) WELL OP	ERATOR	CNG D	evelop	ment	Compan	У	7) DESIGNATEI	DAGENT Mr. Ga	ry Nichol	as
Addres	c/o P	aul W.	Garre	ett,	P.O. Bo	x 15746	Address	Crosswind Co		
		Pitts	burgh.	PA	15244	10110		ox 698, Bridg	eport. WV	26330
8) OIL & GA	S INSPEC						9) DRILLING CO			
Name		rthur	The second secon					am Jack Drill	ing Compa	nv
Address		0. Bo					Address	P. O. Box 48		
	THE RESERVE OF THE PARTY OF THE	enton,		24818			ridaress	Buckhannon,		
10) PROPOSE	D WELL	WORK.	Drill	Χ	/ Drill	deeper	/ Redrill	Stimulate	X	
10, 1101052	D WEEL	WORK.		S Resident			orate new formation	111112012	SIEII W	15/11)
						vell (specify)		11/25	A CO	SIII
11) GEOLOGI	ICAL TAR	GET FOR			Big Lim			77		ועניי
12) Estim	ated denth	of complete	ed well		3370	fee	t	007	1 9 1984	Carro
13) Appro	ximate trat	a depths:	Fresh.	125,	1382		lt,	feet.	T 0 1304	
14) Appro	ximate coa	l seam dep	ths:1320	, 14	30, 162	6 Is c	oal being mined in the		/ No	,
15) CASING								OIL &	GAS DIVISI	ON
CASING OR	11		IFICATION	s	H	FOOTAGE	INTERVALS	IL CEMEN FILLUR	IDE MAN	Puk = C
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	Size	Grade	per tt.	New	Useu	For drining	Left in wen	(Cubic feet)	Kinds	
Fresh water	11 2/	4 H-40	42	X		40	40	To sumfore	1	75.05
Coal	11-3/	11-40	42	^		40	40	To surface	By Rule	15.05
Intermediate	8-5/8	X-42	2.3	X		1660	1660	To surface		1E 0E
Production	4-1/2		Line III STATES TO SERVICE	X		3370	3370	200-400 sks	By Rule Depths set	15.05
Tubing		CN-55		X		33/0	3370	200-400 SKS		15.01
Liners	1-1/2	CI4-33	2.75	^					By Rule Perforations:	15.01
									Тор	Bottom
		pHOLES TO	STALL LEAVE	PURU.	2000	PLAT YEAR	DATE OF THE	A STATE OF SERVICE	4. VI. 11700.	TO EART CHES
			72.5						7	
				No. No. 3			District Control		"-	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1,000			Ol	FFICE USE	ONLY		Lagranga i	AUTOCOTO (
					DI	RILLING P	ERMIT			
		/7 100	00/7					November	- 5 DEDA	19 84
Permit number_		47-109	-0947					Dat		19 04
										notes igmo
This permit cover	ering the w	ell operato	or and wel	l locati	on shown be	low is evidence	of permission grant	ed to drill in accordangiven to the District O	ice with the per	ector (Refer to
quirements subj	the constru	onaitions of re	ontained	tions a	and on the re	verse hereor.	rk.In addition, the w	ell operator or his con	tractor shall no	tify the proper
district oil and a	gas inspecto	or 24 hours	s before a	ctual pe	ermitted wor	k has commend	eu.)			
The permitted u	ork is as d	escribed in	the Notic	e and	Application,	plat, and reclar	nation plan, subject t	o any modifications a	nd conditions s	pecified on the
reverse hereof.	OIR 13 d3 d									
Permit expires		No	vembe	r 5,	1986	unless we	ell work is commenced	prior to that date and	prosecuted with	i due difigence.
1 Crimit Capacita										
			Dlat:	Casi	ng F	ee				
Bond:	Ager		Plat:	1 -	21 70	200	4-0		/	
28	7	7 /	nU	n	1431	18	Mlan	ant)	X lans	1.
						+	1 1000	inistrator, Office of C	Oil and Gas	3860 18 15 1
							Adr	unistrator, Office of C	Jii aliu Gas	
NOTE: Keep	one copy o	of this pern	nit posted	at the	drilling locat	ion.	//		475.24	File
				an alda	of the APDI	ICANT'S CO	PY for instructions to	the well operator.		



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

	ACTIONS Mr. G								
orporate Park Jeport, WV 2533			0x, 13746 /01/0						
ling Company	ontractor an Cack Uril P. G. Box 48 Bucknapnon				nis	10 .di	thur S Q. Box	riguadi. UA ini Igi 9na	
(2)与15.079写》	公司位置			Britt	_3X_				
IIII al Mingre									
	10		9II	BigLi				CALIARD	
11 1 1984 T				33/0				in literation	(2) Estima
	v		Latine 1 rest 12.2	1004 20 1 c	COT AT			dinate traff	signik (ff
CAS DIVISION	A THOUGH A PARTY			101 -00		22/A	ensomes Seagle		
JEMM TO	1 Had Sala 1					ORDITADE			
Ey Rule 15.05	To surface		[02 L				DA-H-	11-3/4	
By Rule 15.05			0231					8/4-8	эль, болгоо
	200-400 sks	3370	3370		Δ,	6.01	dd-b	12/1-2	001000
TUEL DIDILY		OFFI	CE USE ONLY		As	Clab	CO-slo		

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received	Follow-up inspection(s)	
Well work started	TIME TO SECTION	90F=F3
	and well lot took how held to evidence of participent and act of trained to trained the five in a content as and on the reverse hereof, eventure that as after the five in the	
Well Record received	ade legations and prisalon sur normalica work in addition the	or to non-striction added to by
Reclamation completed	the Notice and Application, plan at a columnation plan, stuper, to an	Lus parmulad work is as described in every beredt,
OTHER INSPECTIONS		Point of July 1
Reason:	11 111 298 7 / Resauce	134 82

IV-9 (Rev 8-81)



DATE 7/16/84
WELL NO. C.N.G.D. No. 1233

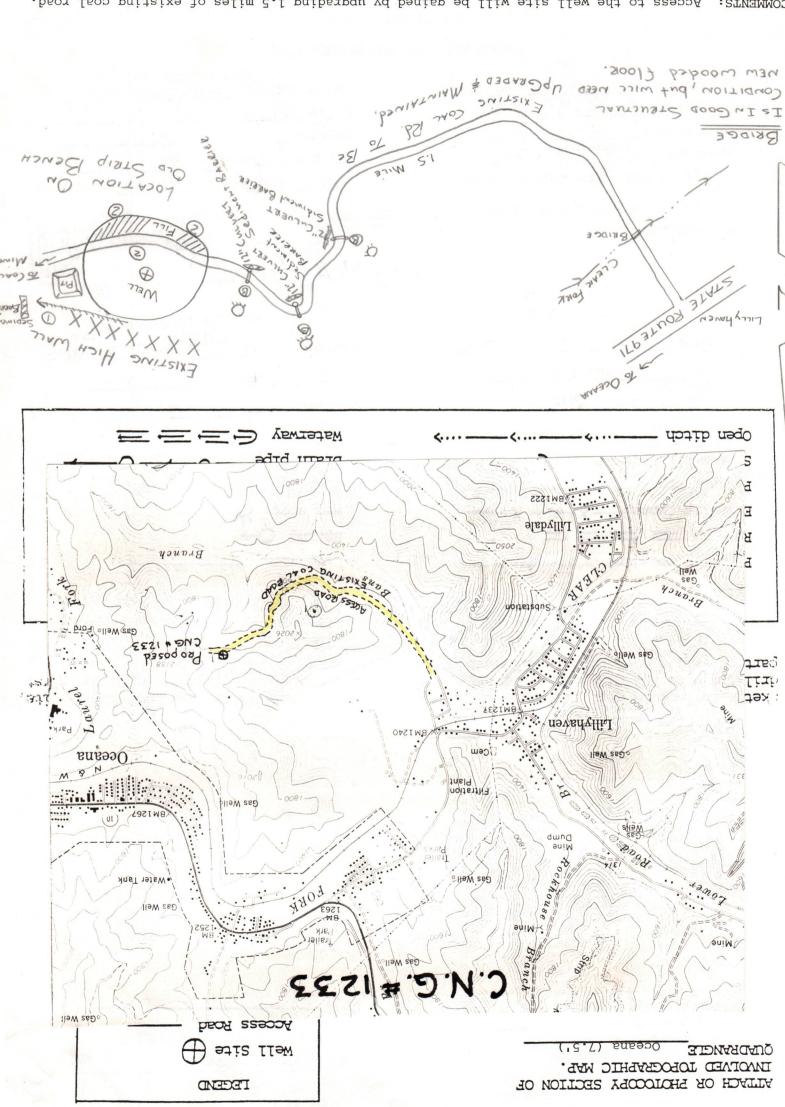
API NO. 47 - 109 - 094

State of Mest Airginia

Bepartment of Mines
Gil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME C.N.G. Development Compa	any Di	Gary A. Nicholas ESIGNATED AGENT Crosswind Corporate Park
Address Pittsburgh, PA 15244		Address Bridgeport, WV 26330
Telephone 412/429-2390		Telephone 304/623-8134
LANDOWNER Robert & Edgar Crouch		SOIL CONS. DISTRICT Southern
Revegetation to be carried out by_		Gary A. Micholas (Agent)
This plan has been reviewed by	Sor	thern SCD. All corrections
and additions become a part of this pl		24-84
	21	(Date)
	Dary	(SCD Agent) OCT 1 9 1984
ACCESS ROAD		
		LOCATION OIL & GAS DIVISION
Structure Drainage Ditch	(A)	Structure Diversion Ditch OF MINE
Spacing Along Access Road		Material Earthen
Page Ref. Manual 2:12		Page Ref. Manual 2:12 to 2:13
Structure Culvert	(-)	•
	(B)	Structure (2)
Spacing 12"Min 42"Max. I.D. as shown	on sketch	Material Mulching
Page Ref. Manual 2:7 to 2:11		Page Ref. Manual 3:6 to 3:7
Structure Cross Drains	(C)	structure Sediment Barrier (3)
Spacing As shown on sketch		Material Hay Bales & Brush from site
Page Ref. Manual 2:1 to 2:6		Page Ref. Manual 2:16 \$ 2:18
All structures should be inspected commercial timber is to be cut and s cut and removed from the site before	tackea ana	all homich and and 17 + 1
R	EVEGETATION	
Treatment Area I		Treatment Area II
or correct to pH 6.5	3	Lime 3.0 Tons/acre
Fertilizer 600 lbs/acre		or correct to pH 6.5
(10-20-20 or equivalent)		fertilizer 600 lbs/acre (10-20-20 or equivalent)
Mulch Hay or Straw 2.0 Tons/acre		Mulch Hay or Straw 2.0 Tons/acre
Seed* Ky. 31 Tall Fescue 45 lbs/acre		Seed* Ky. 31 Tall Fescue 45 lbs/acre
Birdsfoot Trefoil 10 lbs/acre		Birdsfoot Trefoil 10 lbs/acre
Rye Grass 10 lbs/acre		Rye Grass 10 lbs/acre
*Inoculate all legumes such as vetch, Inoculate with 3% recommended amount.	trefoil a	nd clovers with the proper bacterium.
	PLAN PREPA	ARED By A E Associates, Ltd.
NOTES: Please request landounement	All	PDRESS 1206 Virginia Street, East
seedling for one growing season.		Tagana Bereet, East
Attach separate sheets as necessary for comments.		Charleston, WV 25301
5 7 51 COMMENSS.	FHON	TE NO304/346-0505



proper erosion and sediment control measures will be installed. Reclamation will be done 6 months after well is completed. junction with the grading. Due to right-of-way acquisition, the plan may change, but brought to desired grade with erosion control structures being installed in concut and stacked prior to any earth moving activities. The road and well site will be All brush and timber 6" and above will be now covered with brush and large timber. stable areas. The well location will be located on the side of an existing coal road All outlets of drainage structures and ditches will be to point in State Route 971. and constructing approximately 50 feet of new access road, beginning at a junction Access to the well site will be gained by upgrading 1.5 miles of existing coal road, COWWENTS:

Notary Public.

State of Hennsylvan

1) Date: October 17 ,

2) Operator's Well No. 1

1233

3) API Well No. 47 - 109 - 0947
State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR	A WELL WORK PERMIT
4) SURFACE OWNER(S) OF RECORD TO BE SERVED	5(i) COAL OPERATOR
(i) Name Robert C. Crouch, 1/2 Interest	Address
Address Box 770 Oceana, WV 24870 (ii) Name Judith H. Miles 1/6 Interest Address 812 Tinkerbell Road	5(ii) COAL OWNER(S) WITH DECLARATION ON REC Name See Attached Sheet Address
Chapel Hill, NC 27514 (iii) Name Kenneth Hartzog 1/6 Interest Address Rt. 1, Box 283-A	Name Address
Staunton, VA 24401 Scottie E. Hartzog 1/6 Interest Rt. 3, Box 839	5(iii) COAL LESSEE WITH DECLARATION ON RECORD Name Address
Staunton, VA 24401	ACCIESS
 (1) The Application for a Well Work Permit to be plugged, which sets out the part and describes the well and its location commenting program; (2) The plat (surveyor's map) showing the construction and Reclamation Plan plug a well), which sets out the plan reclamation for the site and access medians. 	on Form IV-9)unless the well work is only to 1.10 1984 for erosion and sediment control and for
THE REASON YOU RECEIVED THESE DOCUMENTS IS WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON TO FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. B ACTION AT ALL.	THAT YOU HAVE RIGHTS REGARDING THE APPLICATION GAS DIVISION THE REVERSE SIDE OF THE COPY OF THE APPLICATION OF MINES
for a Well Work Permit with the Administrator of Department of Mines, with respect to a well at and depicted on attached Form IV-6. Copies of	of the Office of Oil and Gas, West Virginia the location described on attached Application this Notice, the Application, the plat, and the led by registered or certified mail or delivered
Check and provide one of the following: Included is the lease or leases or other of the right to extract oil or gas. The requirement of Code 22-4-1-(c)(1) through	
7) ROYALTY PROVISIONS Is the right to extract, produce or market the or other contract or contracts providing for for compensation to the owner of the oil or gas to the volume of oil or gas so extracted, pro-	the oil or gas based upon a lease or leases flat well royalty or any similar provision as in place which is not inherently related which or marketed? Yes
If the answer above is No, nothing ad you may use Affidavit Form IV-60.	ditional is needed. If the answer is Yes,
See the reverse side for line item instruction required copies of the Notice and Approximation Plan.	nuctions, and for instructions concerning plication, plat, and Construction and
The truth of the information on the	CNC David a pront Company
Notice and Application is verified and sworn to and the Notice is	OPERATOR CNG Development Company
signed on behalf of the Well Operator	By Paul W. (Rassott
in my County and State by	Its Manager, Well Programs
this 17 day of October 1984	Address P. O. Box 15746
My commission expires Files , 1986.	Pittsburgh, PA 15244
William & Dranes	Telephone 412-787-4090
Notary Public alleguing County,	

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface cwner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the cath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book	Page
Juanita Lawson, et vir	Consolidated Gas Supply Corporation	1/8	244	110
Robert C. Crouch, et al	CNG Development Company	1/8	344	551



CNGD Well No. 1233 Juanita Lawson, et al Wyoming County, WV

COAL OWNERS

Robert C. Crouch Box 770 Oceana. WV 24870 1/2 Interest

Arnold O. Epperly 408 Overlook Drive Beckley, WV 25801

1/8 Life Interest

Judith H. Miles 812 Tinkerbell Road Chapel Hill, NC 27514 1/8 Interest and 1/24 Interest subject to Life Estate of Arnold O. Epperly

Kenneth Hartzog Route 1, Box 283-A Staunton, VA 24401 Same

Scottie E. Hartzog Route 3, Box 839 Staunton, VA 24401 Same



OIL & GAS DIVISION DEPT. OF MINES

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

Mr. Robert C. Crouch * U.S.G.P.O. 1983-403-517 Street and No. BOX 770 P.O., State and ZIP Code Oceana, WV 24870 \$ Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt Showing to whom and Date Delivered Return receipt showing to whom. Date, and Address of Delivery Feb. 1982 TOTAL Postage and Rees Postmark or Date PS Form 3800,

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

* U.S.G.P.O. 1983-403.517	Sent to Mr. Arnold O. Eppe Street and No. 408 Overlook Drive	
P.O. 1	P.O., State and ZIP Code Beckley, WV 25801	
U.S.G.	Postage	\$
*	Certified Fee	
	Special Delivery Fee	
	Restricted Delivery Fee	
	Return Receipt Showing to whom and Date Delivered	
1982	Return receipt showing to whom, Date, and Address of Delivery	
Feb.	TOTAL Postage and Fees	\$ 189
PS Form 3800,	Postmark or Date 19861 1	

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

# U.O.G.F.O. 1900-1000	Sent to MS. Judith H. Miles Street and No. 812 Tinkerbell Road					
.r.V. 19	P.O., State and ZIP Code Chapel Hill, NC 2	7514				
¥ U.ö.u	Postage Certified Fee	\$				
	Special Delivery Fee					
	Restricted Delivery Fee					
	Return Receipt Showing to whom and Date Delivered					
1982	Return receipt showing to whom, Date, and Address of Delivery					
Feb.	TOTAL Postage and Fees	s 89				
PS Form 3800,	Postmark or Date					

P 691 309 340

27719

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

-517	Sent to Mr. Kenneth Hartzog					
83-403	Street and No. Route 1, Box 283-A					
* U.S.G.P.O. 1983-403-517	P.O., State and ZIP Code Staunton, VA 24401					
.S.G.F	Postage \$					
1 *	Certified Fee					
	Special Delivery Fee					
	Restricted Delivery Fee					
	Return Receipt Showing to whom and Date Delivered					
1982	Return receipt showing to whom, Date, and Address of Delivery					
Feb.	TOTAL Postage and Fees \$ 89					
Form 3800,	Postmark or Date 30 8					
PS F	STING S					

P 691 309 341

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

1	
U.S.G.P.O. 1983-403-517	Sent to Mr. Scottie E. Hartzog
83-4	Route 3, Box 839
P.O. 19	P.O., State and ZIP Code Staunton, VA 2440]
S.G.	Postage \$
* U.	Certified Fee
	Special Delivery Fee
	Restricted Delivery Fee
	Return Receipt Showing to whom and Date Delivered
1982	Return receipt showing to whom, Date, and Address of Delivery
Feb.	TOTAL Postage and Fees \$ 0
Form 3800,	Postmark of Pale
PS	197119

OPEN	779-781 1452-1456 1568-1574			
	Producing formation Ravencliff	Sand	Pay zone depth 2069-2089	feet
	Gas: Initial open flow		l: Initial open flow	Bbl/d
	Final open flow 292	Mcf/d	Final open flow	Bbl/d
	Time of open flow betw	een initial	and final tests hours	
	Static rock pressure 420 psi (If applicable due to multiple co		easurement) after 24 hours	shut in
	Second producing formation		Pay zone depth	feet
	Gas: Initial open flow	Mcf/d Oi	l: Initial open flow	Bbl/d
	Final open flow	Mcf/d Oi	l: Final open flow	Bbl/d
	Time of open flow betw	een initial	and final tests hours	
	Static rock pressurepsig	(surface me	asurement) after hours	shut in
			(Continue on rever	se side)

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

McCullough Perforated Ravencliff Sand 2069 - 2089; 12 holes (.39)

Dowell Foam Frac (75Q) Ravencliff Sand - Break 3000, Avg. TPSI 2800, Avg. Rate 20 BPM, ISI 1950, 5 min 1850, used 730,000 SCFN2 45,000# 20/40 Sand, 500 gals 15% HCL

WELL LOG

ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale	0	202	Water Fresh 550'
Coal	202	206	Coal 202 - 206
Sand, Shale	206	350	350 - 354
Coal	350	354	779 - 781
Sand, Shale	354	779	1452 - 1456
Coal	779	781	1568 - 1574
Sand, Shale	781	1452	and the second s
Coal	1452	1456	No. of the control of
Sand, Shale	1456	1568	
Coal	1568	1574	
Sand, Shale	1574	1931	
Princeton	1931	1983	
Sand, Shale	1983	2003	
Ravencliff	2003	2091	Market in the second se
Shale	2091	2094	
Avis L. S.	2094	2132	and the second s
Shale	2132	2154	
Sand, Shale	2154	2565	The transfer of the Walter transfer of the territory
Maxton	2565	2580	
Sand, Shale	2580	2672	
Lower Maxton	2672	2731	The state of the s
Sand, Shale	2731	2760	
Little Lime	2760	2858	
Sand	2858	2888	Many and sparrer and the state of the state of
Big Lime	2888	3275	
Red Rock	3275	3378	
Gamma Ray Tops			grows a substance of the control of the second of the control of the
Princeton 1857-1901			
Ravencliff 2058-95	St. Name of the	46.07	
Avis lime 2095-2137	and the second		
U. Max. Stray 2219-2322	25-67		
U. Maxton 2443-69		,	200
L. Maxton 2677-2746			
L. Lime 2764-2930		5.53	
B. Lime 2946-3281 LTD 3382			

(Attach separate sheets as necessary)

By: Mary Mukhan

Well Operator

CNG DEVELOPMENT COMPANY

Date: January 22, 1985

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."





OIL & GAS DIVISION
DEPT. OF MINES



State of Mest Airginia Pepartment of Mines Gil und Cas Pivision

Date January 22, 1985
Operator's
Well No. CNGD WN 1233
Farm Juanita Lawson
API No. 47 - 109 - 0947

(Continue on reverse side)

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1829.39 Watershed	Bans Bran	nch		
District: Oceana County Wyom:	ing (Quadrangle	Oceana	
COMPANY CNG DEVELOPMENT COMPANY				
ADDRESS P.O.Box 15746, Pittsburgh, PA 15244	Casing	Used in	Left	Cement
DESIGNATED AGENT Gary A. Nicholas	Casing Tubing	Drilling		fill up
ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330	Size	Dilling	III well	Cu. ft.
SURFACE OWNER Robert C. Crouch, et al	20-16			
ADDRESS Box 770, Oceana, West Virginia 24870	Cond.	26	26	
MINERAL RIGHTS OWNER Juanita Lawson, et al	13-10"			-
ADDRESS 913 McQueen Blvd., St. Albans, WV 25117	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1685	1685	To Surf.
Arthur St.ClairADDRESS Brenton, WV 24818	7			
PERMIT ISSUED 11-5-84	5 1/2			
DRILLING COMMENCED 12-4-84	4 1/2	2318	2318	120 sks.
DRILLING COMPLETED 12-13-84	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	X 1-1/2	2070	2070	-
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners			
GEOLOGICAL TARGET FORMATION Big Lime	-	Den	th 2270	fee
Water strata depth: Fresh 550 feet;	Rotary X		- 10015_	
Coal seam depths: 202-206 350-354			od in the	2222
779-781 OPEN FTOW DATA 1452-1456	is coar.	being nun	ed in the	area?_No
Producing formation Rayencliff Sand	Pav	zone dep	th 2069-20	ngo fee
Gas: Initial open flowMcf/d				
Final open flow 927 Mcf/d				
Time of open flow between init				
Static rock pressure 400 psig(surface		•	1	
(If applicable due to multiple completion				
Second producing formation		zone dep	th	fee
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
	The second secon			

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

McCullough Perforated Ravencliff Sand 2069 - 2089; 12 holes (.39)

Dowell Foam Frac (75Q) Ravencliff Sand - Break 3000, Avg. TPSI 2800, Avg. Rate 20 BPM, ISI 1950, 5 min 1850, used 730,000 SCFN2 45,000# 20/40 Sand, 500 gals 15% HCL

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale	0	202	
Coal	202	206	Water Fresh 550'
Sand, Shale	206	350	Coal 202 - 206
Coal	350	354	350 - 354
Sand, Shale	354	779	779 - 781
Coal	779	The second secon	1452 - 1456
Sand, Shale	781	781	1568 - 1574
Coal	1452	1452	
Sand, Shale	1456	1456	
Coal	1568	1568	
Sand, Shale	1574	1574	
Princeton		1931	
Sand, Shale	1931	1983	
Ravencliff	1983	2003	
Shale	2003	2091	
Avis L. S.	2091	2094	
Shale	2094	2132	
Sand, Shale	2132	2154	
Maxton	2154	2565	
Sand, Shale	2565	2580	
Lower Maxton	2580	2672	
Sand, Shale	2672	2731	
Little Lime	2731	2760	
Sand	2760	2858	
Big Lime	2858	2888	
Red Rock	2888	3275	
ked kock	3275	3378	
amma Ray Tops			
rinceton 1857-1901			
Ravencliff 2058-95	and the same of the same		
Avis lime 2095-2137			
U. Max. Stray 2219-2322		A superior of colors of the co	
J. Maxton 2443-69			
Mart 2 2677 27			
Maxton 2677-2746			
L. Lime 2764-2930		,	
3. Lime 2946-3281			
TD 3382			

(Attach separate sheets as necessary)

Well Operator

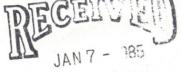
CNG DEVELOPMENT COMPANY

Date: January 22, 1985

Note: Regulation 2.08(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."

OG-11



OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Myo-109-0947. Permit No/109-0947. Wew	Const.	KEI OK	Oil or	Gas Well
Company CNG Dev.	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address Pettsberg Pa	Size		- 200	
Farm Couch	16			Kind of Packer
Well No. 1233	10			Size of
District Claud County Wyomin	814			
Drilling commenced Mew Work	6%			Depth set
Drilling completedTotal depth	3	- 1		Perf. top
Date shotDepth of shot	2			Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEMEN	NTED	_SIZE	No. FTDate
Rock pressure lbs hrs.	NAME OF SER	VICE COMPA	NY	
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	_FEETINCHES
Fresh waterfeetfeet	FEET_	INCH	ES	_FEETINCHES
Salt waterfeetfeet	FEET_	INCH	ES	FEETINCHES
Drillers' Names Justine Const.	- Excar	rating	Contr	
Remarks: evock being done on over access Road this	loco	tion, &	Dry 5,	Blasting.
Over access Road the	1 sato.	Slogo	no z	Deje
Over access Road that all work en for Draws ustabled as yes	A_			
1-3-84		RE	2 LINE	(Sign lite
DATÉ		200		Distance was immedian

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS		- 34	
FARM			ADDRESS			
		DISTRICT	- ADDRESS	COUNTY		
Filling Material Used						
			The second secon			
Liner Lo	cation	Amount				
		Amount	Packer	Location		
	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	
						LO
1.297 1938 - 5.11						
				1		

illers' Names						
				-		
marks:			Processing the second s			

SISTRIST WELL IMPRETO

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

DEPT. OF MINES

Oil or Gas Well News CASING AND LEFT IN USED IN PACKERS Company Size Kind of Packer___ 13_ Well No. Size of____ 10 _County_ Depth set___ Drilling commenced none 5 3/16_ Drilling completed_____Total depth_ Perf. top____ Depth of shot Date shot Perf. bottom____ Liners Used_ Perf. top____ Initial open flow_____/10ths Water in_ Perf. bottom_ Open flow after tubing_____/10ths Merc. in____ _No. FT.____ Volume_ Cu. Ft. SIZE_ CASING CEMENTED____ NAME OF SERVICE COMPANY Rock pressure. hrs. _bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT__ FEET_ INCHES Fresh water feet feet FEET INCHES FEET INCHES Salt water. feet feet FEET INCHES FEET INCHES Sound conditions good for location the proceeding good-Remarks:

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY	100		ADDRESS			10/4
FARM		DISTRICT _	C	OUNTY		
	91.30 A	7.J. 1. 10	WING CO.	- VIII		
illing Material Used			886			**************************************
iner Loc	cation	Amou		Loc	ation	
	ND DEPTH PLACED		BRIDGES	CASINO	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
and the second s						
	-					
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Caratina Nation						
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	TWO SEASON	1 7 35 45 3 E	te miles			
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131 W.L.						
Orillers' Names						
orniers Names						
					garlagat bereita an	
Remarks:						
		- 1				
DATE	I hereby certify I visi	ited the above v	well on this date.			
DATE						
			DIS	TRICT WELL INS	SPECTOR	12.5

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

PACKERS

INSPECTOR'S WELL REPORT DEPT. OF MINES

109-0947 Permit No			Oil
Company CNG, Dev	CASING AND TUBING	USED IN DRILLING	LEFT IN
Address Dettsburgh, PQ	Size		
Farm Robert Crouch	16	45'C	K

Address Dettsburgh, PQ	Size					
Farm Robert Crouch	16	45	(4)	4	Kind of Pacl	cer
Well No. /239	13				Size of	
District Oceana County My County	81/4				5120 02	
Orilling commenced 1-14-85	65%				Depth set	
Orilling completed Total depth 840	53/100n 3_	4			Perf. top	
Date shotDepth of shot	2				Perf. bottom	
Initial open flow/10ths Water inInch	Liners Used_				Perf. top	
Open flow after tubing/10ths Merc. inInch					Perf. bottom	
VolumeCu. Ft.	CASING CEN	MENTED	16	SIZE	5 No. FT.	Date
lock pressurelbshrs.	NAME OF S	SERVICE C	OMPAN	y 3	y hou	_
Dilbbls., 1st 24 hrs.	COAL WAS	ENCOUNT	ERED A	7210	FEET 36	INCHES
Fresh water 50' feet 240' feet	240 FEB	ет 24 и	INCHE	S	_FEET	_INCHES
Salt water feet feet	FE	ET	INCHE	S	_FEET	INCHES
Borrely Dra Co	Red	#1				Residence

Drillers' Names Beverly Dry Co. Reg # 1

Remarks: pels au good & holding neit esq at 1650 of 87 esq all procedure Load!

1-17-85

DISTRICT WELL INSPECTOR

Form 26 2/16/82

OIL & GAS DIVISION

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS					
ARM	DISTRICT COUNTY							
	4,132	A	8.27					
Filling Material Used								
•	· 7 · 3	7	t Packer	Loc	ation			
iner Loc		Amoun		TO SE	G AND TUI	RING		
All the second s	ND DEPTH PLACED	1500	BRIDGES	RECOVERED	SIZE	LOST		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	3126	LOST		
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			and the second s			Market I		
			2 mai - Maria Mari					
					al and the same of the			
		1	THE TANK		77			
Orillers' Names	and the state of t	-						
					-			
Remarks:								
	I hereby certify I visi	ted the above we	ell on this date.					
DATE								

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

INSPECTOR'S WELL REPORDEPT. OF MINES

(1040-109-0947 Permit No	VELL	KEPOIL		Gas Well Las
	Company CN, P. Dev.	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
	Address Pettsburgh, Pa	Size			
	Farm R-Greech	16		* 34 - 12 - 1	Kind of Packer
	Well No. 1233	13	30%	cts	Size of
•	District Oceana County Club	81/4 8/5	1602'	c+s	
	Drilling commenced /-14-85	6%	a supplied of so		Depth set
	Drilling completedTotal depth 1990	53/16			Perf. top
	Date shotDepth of shot	2			Perf. bottom
	Initial open flow/10ths Water inInch	Liners Used			Perf. top
	Open flow after tubing/10ths Merc. inInch				Perf. bottom
	VolumeCu. Ft.	CASING CEME	NTED 85	SIZE 16	01No. FT Date
	itock pressurelbshrs.	NAME OF SER	VICE COMPA	NY ,	Dowell Ds
	Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT 2/0	FEET 35 INCHES
	water 60 feet feet	240 FEET	36 1 INCH	ES/5/0	FEET 60 INCHES
	t waterfeetfeet	FEET_	INCH	ES	FEETINCHES

Remarks: Dy 5 Dusting this date of 1990 pets, are good 5 holding all proceedure Good!

Drillers' Names Bougley Deg Co- Reg #1

1-23-85

Calley Stoland 32

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS			
FARM						
ANM		DISTRIC	7	COUNTY		
Filling Material Used						
Liner L	ocation	A				
		Amount	Packer	Location		
	AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOS
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rillers' Names						1.e.
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emarks:						9
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DATE	A MELEUV CEPTITY I WM	STERR PRA Show	ne would am this Jaka			

DEPARTMENT OF MINES





OIL & GAS DIVISION

109-0947 INSPECTOR	R'S WELL	REPOR	PT. of	MINES
Permit No Comple	tion of	ng Coll	Oil or	Gas Well
Company C.N.G. Dev.	CASING AND	USED IN DRILLING	LEFT IN WELL	PACKERS
ddress Rethsburgh, Pa	Size			
Arm R- Crouch	16	40 C	15	Kind of Packer
ell No. 1283	13			Size of
strict Oclana County LUB	81/4 83	1602C	X	
rilling commenced 1-14-84	5 3/16			Depth set
rilling completed 1-26-8 Fotal depth 335	3 42	3262-	300	Frey. top
ate shotDepth of shot	2			Perf. bottom
itial open flow/10ths Water inInch	Liners Used			Perf. bottom
pen flow after tubing/10ths Merc. inInch		44	2 · 2 ·	620. FT. 1-260
ck pressurelbs,hrs.	NAME OF SE	RVICE COMPA) - S.
bbls., 1st 24 hrs.		NCOUNTERED	AT210'	FEET 36 INCHI
esh water 60 / feet feet	1 - 1 -	- 1		FEETINCHI
lt water 300 Dong	FEET	INCH	ES	_FEETINCHI
rillers' Names Beverly Drg G;	Riá	#1		श्री म्या
, ,				
emarks: of Location the	, date	eve	ell C	empleted
Lime will do -	two	Stog	efo	f.
vendeff & B-lini vendeff & B-lini -30-85 Procedi		11	ार्क रेता मेंग्या है	
22 85 Riocedi	un Soo	d!	- 0:	d a
-30-800 DIMENTAL OF MARCHINE		11/4/11	W6 27	Wain (50)

Form 26 2/16/82

MEGENVED TO SEE THE SE

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

MOISING RAD A INSPECTOR'S PLUGGING REPORT

COMPANY	10.102		ADDRESS			N 1887 1
	DISTRICT COUNTY					
	4.339			0.1.0		
illing Material Used				1000		
iner Loc	cation	Amou	unt Packer	Loc	cation	
PLUGS USED AND DEPTH PLACED		ON I	BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
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			The second secon			
						TH 300 744
		12-13-13-13-13				
Orillers' Names						- //
Remarks:						
	I hereby certify I vis	ited the above v	well on this date.			
DATE						
				TRICT WELL INS		

2 Wells

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



NSPECTOR'S WELL REPORTOIL & GAS DIVISION

DEPT. OF MINES Oil or Gas Well_ (KIND)

CASING AND USED IN LEFT IN PACKERS Company Size Address Kind of Packer_ Size of_ 81/4. County Depth set_ 65% Drilling commenced. 5 3/16_ Drilling completed_ Total depth Perf. top___ Date shot_ Depth of shot Perf. bottom_ Liners Used. Perf. top___ Initial open flow_ _/10ths Water in_ Inch Perf. bottom_ Open flow after tubing_____/10ths Merc. in____ Inch Volume. SIZE No. FT.__ Cu. Ft. CASING CEMENTED_ Date NAME OF SERVICE COMPANY Rock pressure. lbs. hrs. Oil bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT_ FEET INCHES Fresh water_ FEET INCHES FEET. INCHES feet Salt water. feet feet FEET INCHES FEET INCHES

Remarks: ustice working on Procedene good skual Joeing Bedown ation -

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No.			ADDRESS				
EADM		DISTRICT	C	OUNTY		the new conference of the te	
ARW		DISTRICT.	~				
Filling Material Used						- ANEC	
ming Material Oscu			35				
iner Loc	cation	Amou	int Packer	Loc	ation		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASINO	AND TU	BING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
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			State of the state	50 1.25 Inc. 1.00			
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	est of papers of the control of the		and the second s				
Orillers' Names				19		100000	
Remarks:							
Ciliai Ks.							
	I hereby certify I vis	ited the above s	well on this date.				
DATE	I ficious certify I vis	ated the above v	TO THE CITY OF THE CALLEY				

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

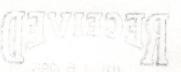


OIL & GAS DIVISION

DEPT. OF MINES

1110-109-09 Permit No		Flual 1	Refused	/	Oil oi	Gas Well	Les
Company C. N.	G. Dev. (0	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PAC	KERS
Address Pitts	10011	Pa	Size			Vind of Pa	cker
Farm Moben	* CROUCH	FORL	3			Kind of Fa	
Well No. /23	33		0			Size of	
District Odean	County	wo.	81/4				
Drilling commenced			65%			Depth set	
Drilling completed	Total depth		5 3/16 3			Perf. top_	
Date shot	Depth of shot		2				m
Initial open flow	/10ths Water	inInch I	iners Used				om
Open flow after tubing	/10ths Merc.	inInch				Feri. botto	om
Volume		Cu. Ft. C	ASING CEME	NTED	SIZE	No. FT	Date
Rock pressure	lbs	hrs	NAME OF SEF	RVICE COMPA	ANY		
Oil	bbls	., 1st 24 hrs. C	OAL WAS EN	COUNTERED	AT	_FEET	INCHES
Fresh water	feet	feet _	FEET	INCE	HES	FEET	INCHES
Salt water	feet	feet _	FEET	INCH	HES	_FEET	INCHES
Drillers' Names Be	everly Dy	Ca Reg	*/	lone	Mou	Y, C	, 4 Gr. 631
Remarks: / all 2 - Dra	aceos .	need &	nead &	mulak led Di	the le	nies -	
3 - Se	demotion.				7	new	-)
	in pepas	pluggo		a Alle melagia i A			7
7-15-85	LIJW TOUTTER			tal	2 run	SISTRICT WET	in Car

Form 26 2/16/82



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ermit No.	DEPT. OF			W	/ell No			
OMPANY	14.80		ADDRESS	DDRESS				
ARM		DISTRICT	C	OUNTY	discovered to the second			
	June gar		Titable	47.0				
illing Material Used					+			
iner Loc	cation	Amou	int Packer	Loc	cation			
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST		
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				and the second second				
	1	1 10 10 1	PRINCES OF THE STATE OF THE CO.					
Orillers' Names								
A TAMES TAMES								
					The sales with the contract of			
Remarks:			Diff. O. F. F.					
	I hereby certify I vis	ited the above v	well on this date.					
DATE								

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

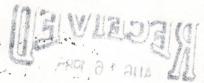


DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

INSPECTOR'S WELL REPORT

ompany CNP. Dev. Co.	CASING AND	USED IN DRILLING	LEFT IN	PACKERS
ddress Pillsburgh Pa	Size			
arm aruch Robert	16			Kind of Packer
rell No. #/233	13			Size of
strict Oceana County My Muy	81/4			
rilling commenced 1984	65%			Depth set
illing completed 1984 Total depth	5 3/16			Perf. top
te shotDepth of shot	2			Perf. bottom
itial open flow/10ths Water inInch	Liners Used			Perf. top
pen flow after tubing/10ths Merc. inInch				Perf. bottom
lumeCu. Ft.	CASING CEME	NTED	SIZE	No. FTDat
ck pressurelbshrs.	NAME OF SEI	RVICE COMPA	NY	
bbls., 1st 24 hrs.	COAL WAS EN	NCOUNTERED	AT	_FEETINCHE
esh water <u>feet</u> feet	FEET	INCH	IES	_FEETINCHE
t waterfeetfeet	FEET	INCH	IES	_FEETINCHE
rillers' Names Beverly Drg Co	Rig #1			Romanias .
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marks: Fenol Sucomplete	ever.	way		
to Show Jenal 1	1 . 1			

Form 26 2/16/82



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

A JIO 30 NOISINSPECTOR'S PLUGGING REPORT

				ADDRESS				
ARM		DISTRICT .		OUNTY		Paradicipal Superior		
illing Material Used				The state of the s				
iner Loc	cation	Amou	nt Packer	Loc	cation			
PLUGS USED AND DEPTH PLACED CEMENT THICKNESS WOOD-SIZE			BRIDGES	CASIN	G AND TU	BING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST		
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				per 100 mm to 100 mm	2-22			
	75 88375							
Orillers' Names								
				2.7				
Remarks:								
	I hereby certify I vi	sited the above v	well on this date.					
DATE								

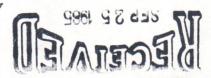
1R-21 2 Wells

STATE OF WEST VIRGINIA

DEPARTMENT OF MESS Energy

OIL AND GAS WELLS DIVISION

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



INCRECTOR'S WELL BE

Oil or Gas Wel CASING AND USED IN LEFT IN PACKERS Company Size Kind of Packer___ Size of____ County My 6 Depth set____ Drilling commenced_ 5 3/16_ Drilling completed_ Total depth_ Perf. top____ Date shot____ _Depth of shot_ Perf. bottom____ Liners Used_ Perf. top___ Initial open flow_____ ___/10ths Water in_ _Inch Perf. bottom_ Open flow after tubing_____/10ths Merc. in___ SIZE_ _No. FT.____Date Volume_ Cu. Ft. CASING CEMENTED___ NAME OF SERVICE COMPANY lbs. Rock pressure_ hrs. COAL WAS ENCOUNTERED AT___ _bbls., 1st 24 hrs. _FEET_ _INCHES Oil feet FEET INCHES FEET INCHES Fresh water_ feet INCHES FEET INCHES Salt water_ feet feet FEET. Remarks:

DIVISION OF OIL & CAS DIVISION OF OIL & CAS EDIVISION OF OIL & CAS

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



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10)			/43) •

OMPANY		ADDRESS					
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	10 000 10 10 10 10 10 10 10 10 10 10 10		ALEMANY SILVERS				
illing Material Used							
iner Loc	cation	Am	ount Packer	Loc	ation		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING	AND TU	BING	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
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		AUQUALI	ATTUACT HE IS AT 1860				
Orillers' Names							
en e					Street, and the	de ante como	
Remarks:							
			e well on this date.				

DISTRICT WELL INSPECTOR

INSPECTOR'S PERMIT SUMMARY FORM

11-5-84

				9417
WELL TYPE GAS - Sh.	allow	API# 47-	109 -	
ELEVATION 1829.23	-	OPERATOR CAL	(1)	CORP
DISTRICT OCCANA		TELEPHONE	1. Devi	Conjo
QUADRANGLE OCCANA		FARM Pobe	pl F	PAULH
		WELL # 102		1100011
COUNTY WYOMING		WELL #_ /0 /_	1	
SURFACE OWNER R-CRO	10 A 00	MMENTO	WELL E	DHONE
TARGET FORMATION B-47				
	ne DA	TE APPLICATION	RECEIVED_	
DATE STARTED LOCATION /-3-85	NOTIFIED	1-3-85 DR	ILLING CO	MMENCED 1-14-85
WATER DEPTHS 740'				
COAL DEPTHS 2/0-				
			Ser Jean	
	(CASING		
Ran //34 feet o		pipe on CKS	with/-	15-85fill up
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		pipe on		
		pipe on		The second secon
		p-tp-		DEI
TD 3370 feet o	on 1-26-85			CIL INDE S
	Di	LUGGING		JUN 2 1986
		doddiid		JUN 2 1000
Type	From	То		Pipe Removed
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Pit Discharge date:		Type		
Field analysis	ph	Typefe		
Well Record received	6	_ 16	01	
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Date Released 5-3	30-8/2			
Date hereased O	, 0 0			
		0 0	2	

API# 47/09 - 0947

LIST ALL VISITS FOR THIS PERMIT

DATE	TIME	PURPOSE	COMMENTS
1			
2 5-1-85	Dew Co	1	
3 1-10-85	Movens		HON
4	7		
1-17-85	Status	Dig 1 840:	SAND
6 7 1-19-85	S	15510	
7 1-19-85	Den 16	02 of 8% C	\$5
9/-19-85-	Stadus. K	ne of 1990 /	45 145
0		7	
1			
3/26-25	Completed	Dig at 33%	70'
1			
5			
3			
7		(Mark)	
3			
)			

Notes

VI-27 86-	2412		
	and the same of th	Tan SEMPLA LINE DE LA CONTROL	Date: 5-/-86
	OF ENERGY	Tanin	Well No: #1233
	ID GAS	STATE OF WEST VIRGINI	A API NO: 47 - 169 0940 State County Permi
51) Add in	& DEPARTMENT OF ENERGY	
	2	DIVISION OF OIL AND G	
MAY	5 1986	NOTICE OF VIOLATION	
Well TYPE:			_/ Waste Disposal/
			/ Deep / Shallow /
LOCATION:			161. CLEBR Fork
	District: OceA	up County: Wyon	1149 Quadrangle: OCEANA
WELL OPERAT	OR CNG Lev	CORP DESIGNATED	DAGENT GARY Nicholas
Addres	s F.O. By 1574	Address (Rassalind Corp.
	Pitts borgh	Po. 15244	By 698 - Bardge port W.V.
	The above well I	s being posted this	, 19, for a
violation o	f Code 22B-1:30	and/or Regulation AR	set forth in detail as follo
		RSE SIDE OF THIS NOTICE	
FAIL	une-to Pe	seed & Fer	nt Lize or Sod.
Loca	Ation,		
	Resulls -	Buen out of g	now.
A conv	of this notice h	as been posted at the	
		as been posted at the we ated well operator or hi	ell site and sent by certified or
			19 86 , to abate this violation.
		보다 하는 경우 이 생물에는 다른 아들을 받았다. 아이들은 아이는 아이는 아이는 아이를 받는 것이 없었다.	ction by the Department under
Code 22B, A		Station may result in ac	croil by the bepartment under
		2 mother	and Gas Inspector
		, D	111 0
		Address By	460
		BA	enton, WU. 248/8

Telephone: 232-6227

V. elation vo. V. 38-2412 1000 3-1-80 1011 No. #1233 MERGY APJ NO. 117 - 109 094 NOTE OF VIOLETION 5 1986 YARA / Weste Disposal / / OF "Gas" - Production L Stonage My Gase Shallow L L Elevation 1829 Valesands Ban By. CLERR Fork LOCATION BISTICE OCCHUA COURT WHO MING CHARLANDIE OCCRETA WELL OPERATUR CHE DRIVE CORP - WEST WATER IN CUT GORY MICHOLOGY Marine 10 3 + 13746 - 10000 CROSS WORL CO.D. Patts burgh Po 15a44 By 698 - Badge port W.V. The above well is being nosted when they or the start of the st windstich of tode 220 136 and/or Regulation A. Re Dill set forth in detail as follow FAILURE-to Pessed & Feithers OR Sod LOCATIONS Essen out of grace. A copy of this notice has been posted at the well site and sent by certified or You are hereby grapped and a PMM 9 The North Particulation Failure to abate the violation may mesult in action by the Department under 102 w/ 1. 7 2 9 Middl BRENTON, OUS 24818

FORM-TV-31
9-83
VIOLATIONS #2418

Date: 5-30-86

Operator's #1233

API Well No.: 47
State

STATE OF WEST VIRGINIA **DEPARTMENT OF MINES, OIL AND GAS DIVISION**

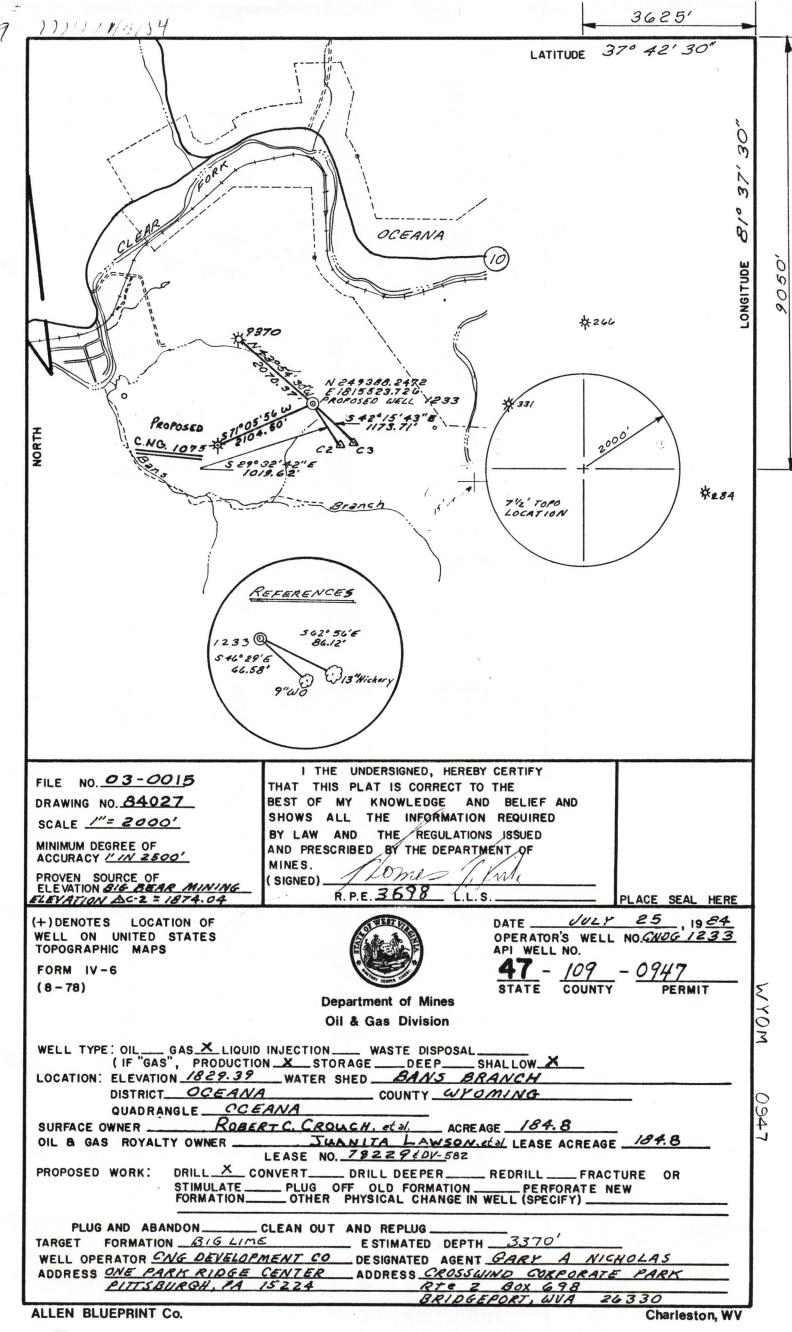
NOTICE OF ABATEMENT

WELL TYPE: Oil Gas Liquid Injection/ Waste disposal/	
Underground	
If "Gas" - Production Storage Deep Shallow DAN BAN BAN BAN BAN BAN BAN BAN BAN BAN B	
LOCATION: Elevation: Watershed: Thursday Clear for S	
District: OCEAND County: WYOMING Quadrangle: CCEBND	
WELL OPERATOR CNA DEV. COSP. DESIGNATED AGENT GRANNICHOLS	
Address PO BY 15046 PARK	
pittsburgh P. 15244 By 698	
Notice is hereby given that the undersigned extensioned silver is a silver in the property with the undersigned extension of the control of t	
Notice is hereby given that the undersigned authorized oil and gas inspector made a special inspection of the above named won 5-30, 1986,	ell
	се
of Violation" Form IV-28, "Imminent Danger Order" of that date has been totally abated. If the abated violation was found	ру
an Imminent Danger Order requiring operations to cease, such requirement is hereby rescinded, and the well operator is hereby notified that he may be a such requirement of the such requirement of th	ay
resume operations.	
Marine of the same	
COMMENTS	
Louised Williams CONditions	
Aboved this date	,
, 1 / , 1 / /	
Abated this date	
110 110 4110	
JUN 2 1986	
JUN 2 1000	
Hery 6-3-26 exhiber 1607 42-36	
A copy of this notice has been posted at the well site and sent by certified or registered mail to the indicated well operator or his designate	d
agent.	
Dx1 (1) 12 2 14 ()	
Cil and Carlons	_
Oil and Gas Inspector	

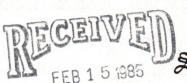
Address

Telephone ___

732-6225



IV-35 (Rev 8-81)



State of West Wirginia

Bepartment of Mines

	January 22, 1985						
Operator's							
Well	No. CNGD WN 1233	2.4					
Farm	Juanita Lawson						
API N	6. 47 - 109 -	0947					

OIL & GAS DIVISION

Gil und Gas Bivision DEPT. OF MINES

WELL OPERATOR'S REPORT DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1829.39 Watershed	Bans Bra	nch		
District: Oceana County Wyom	ing	Quadrangle	Oceana	
COMPANY CNG DEVELOPMENT COMPANY				I Common to
ADDRESS P.O.Box 15746, Pittsburgh, PA 15244	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Gary A. Nicholas	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330	Size			
SURFACE OWNER Robert C. Crouch, et al	20-16 Cond.	26	26	
ADDRESS Box 770, Oceana, West Virginia 24870	13-10"			2.126.12.12
MINERAL RIGHTS OWNER Juanita Lawson, et al	9 5/8			
ADDRESS 913 McQueen Blvd., St. Albans, WV 25117		1685	1685	To Surf.
OIL AND GAS INSPECTOR FOR THIS WORK	7			
Arthur St. Clair ADDRESS Brenton, WV 24818	5 1/2			
PERMIT ISSUED 11-5-84	4 1/2	2318	2318	120 sks.
DRILLING COMMENCED 12-4-84	3			-
DRILLING COMPLETED 12-13-84	2			
TO ADDITIONALE. DILICITING OF DRY HOLE ON				
TO THE PROPERTY OF THE PROPERTY OF	Liners			
REWORKING. VERBAL PERMISSION OBTAINED				
ON		De	oth 337	0 fee
GEOLOGICAL TARGET FORMATION Big Lime	Rotary	x / Cab	le Tools	
Depth of completed well 3378 feet	. Salt	fee	t	
Depth of completed Well	Ts coa	1 being mi	ned in t	he area?
Coal seam depths: 350-354				
OPEN FLOW DATA 1452-1456 1568-1574		,		2000 fe
OPEN FLOW DATA 1452-1456 1568-1574 Producing formation Rayencliff Sand Mcf/d	I	eay zone d	eptil 2069	-2009 Bb
Producing formation Ravencliff Sand Gas: Initial open flow Mcf/6	oil:	Initial op	en ilow_	Bh
Gas: Initial open flow Mcf/c Final open flow 292 Mcf/c	1	Final open	flow	- Lauren
Final open flow 292 McI/O Time of open flow between in	nitial and	final tes	ts	nours
Time of open flow between II Static rock pressure 420 psig(sur	face measu	rement) at	ter 24	hours shuc
Static rock pressure	ion)			
(If applicable due to multiple complet		Pay zone	depth	
Second producing formation	/d Oil:	Initial o	pen flow	B
Gas: Initial open flow Mcf. Final open flow Mcf. Time of open flow between	/d Oil:	Final ope	n flow_	B
	_			1

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

McCullough Perforated Ravencliff Sand 2069 - 2089; 12 holes (.39)

Dowell Foam Frac (75Q) Ravencliff Sand - Break 3000, Avg. TPSI 2800, Avg. Rate 20 BPM, ISI 1950, 5 min 1850, used 730,000 SCFN2 45,000# 20/40 Sand, 500 gals 15% HCL

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale	0	202	Water Fresh 550'
Coal	202	206	Coal 202 - 206
Sand, Shale	206	350	350 - 354
Coal	350	354	779 - 781
Sand, Shale	354	779	1452 - 1456
Coal	779	781	1568 - 1574
Sand, Shale	781	1452	
Coal	1452	1456	
Sand, Shale	1456	1568	
Coal	1568	1574	
Sand, Shale	1574	1931	
Princeton	1931	1983	
Sand, Shale	1983	2003	
Ravencliff	2003	2091	
Shale	2091	2094	
Avis L. S.	2094	2132	
Shale	2132	2154	
Sand, Shale	2154	2565	
Maxton	2565	2580	
Sand, Shale	2580		
Lower Maxton	2672	2672	
Sand, Shale	2731	2731	
Little Lime	1	2760	
Sand	2760	2858	
Big Lime	2858	2888	
Red Rock	2888	3275	
	3275	3378	
Gamma Ray Tops			
Princeton 1857-1901			
Ravencliff 2058-95			
Avis lime 2095-2137			
U. Max. Stray 2219-2322		193 or 80 to	
U. Maxton 2443-69			
L. Maxton 2677-2746		and the second	
L. Lime 2764-2930			
B. Lime 2946-3281			
LTD 3382			
The second secon			

(Attach separate sheets as necessary)

Well Operator

CNG DEVELOPMENT COMPANY

Date: January 22, 1985

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."