



)	Date:_	October	25	, 19	84	10000
1	Operat	or's				

Well No.

3) API Well No.

	OIL &	GAS	DIVISIO	N
D	EPT.	OF	MIN	E

### STATE OF WEST VIRGINIA

#### DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT WELL TYPE: A Oil X \_/ Gas X B (If "Gas", Production \_ Underground storage Elevation: 643.4 LOCATION: Bull Creek Watershed: District: Jefferson County: Pleasants Quadrangle: Willow Island WELL OPERATOR Cuyahoga Exploration & Dev. 13/257) DESIGNATED AGENT Roger Hunter Address Route #1 P. O. Box 1386 Address Marietta, Ohio 45750 Charleston, WV OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Robert Lowther Name Name \_\_ not yet determined General Delivery Address Address Middlebourne, WV Drill 10) PROPOSED WELL WORK: / Drill Redrill Stimulate Plug off old formation\_ \_/ Perforate new formation Other physical change in well (specify) Devonian Shale Benson formation 11) GEOLOGICAL TARGET FORMATION, 5,000 12) Estimated depth of completed well, 13) Approximate trata depths: Fresh. 100 1.500 14) Approximate coal seam depths: not applicable Is coal being mined in the area? 15) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLUP **PACKERS** TUBING TYPE OR SACKS Size per ft. New Used For drilling Left in well (Cubic feet) Conductor 11 3/4 X 38.0 601 60" Kinds 9 5/8 Fresh water 36.0 X 200 200" 100 sacks Coal 20.0 Intermediate X 2500 2500 300 sacks 4.5 Production 10.5 X 5000 5000 300 sacks Depths set Tubing Liners Perforations: OFFICE USE ONLY DRILLING PERMIT 47-073-1901 November 13, 84 This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to The permitted work is as described in the Notice and Application

No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

everse hereof.	a in the Notice and Application	i, plat, and reclamation pla	n, subject to any m	odifications and	conditions specified on the
Permit expires	November 13, 1986	l		9	Belling to the same

ermit expires		Novem	ber 13, 1	.986	unless well work is commenced prior to that date and prosecuted with due dilige		
Bond:	Agent:	Plat:	Casing	Fee	age in a supplied in		

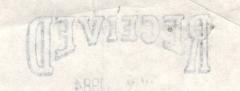
52 MN MNMN 1096

NOTE: Keep one copy of this permit posted at the drilling location.

dministrator, Office of Oil and Gas

File





OFFICE USE ONLY

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

Dering Jerberson County Pleasants Coating Willow 181

Well Derivation Circles Coating Coating

**************************************	OFFICE USE ONLY		2 11
This part of Form IV-2(b) is to record th	ne dates of certain occurrences and a	ny follow-up inspections.	
	Date		Date(s)
Application received	Follow-up ins	pection(s)	
Well work started	DRIVERS AND STATES	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
process	nown below is evidence of remassion granted on the reverse harroff. A preparation dates for gr		
Well Record received	ted work link commenced to	Miles of LA nours belong actual octains	
Reclamation completed	loation, plat, and recembing plan subject to	Wovember 13,	
OTHER INSPECTIONS	901	gene Plat Casing	
Reason:	togs Three	MUNICI BU	52 1
Reason:	Variable Var		

IV-9 (Rev 8-81)



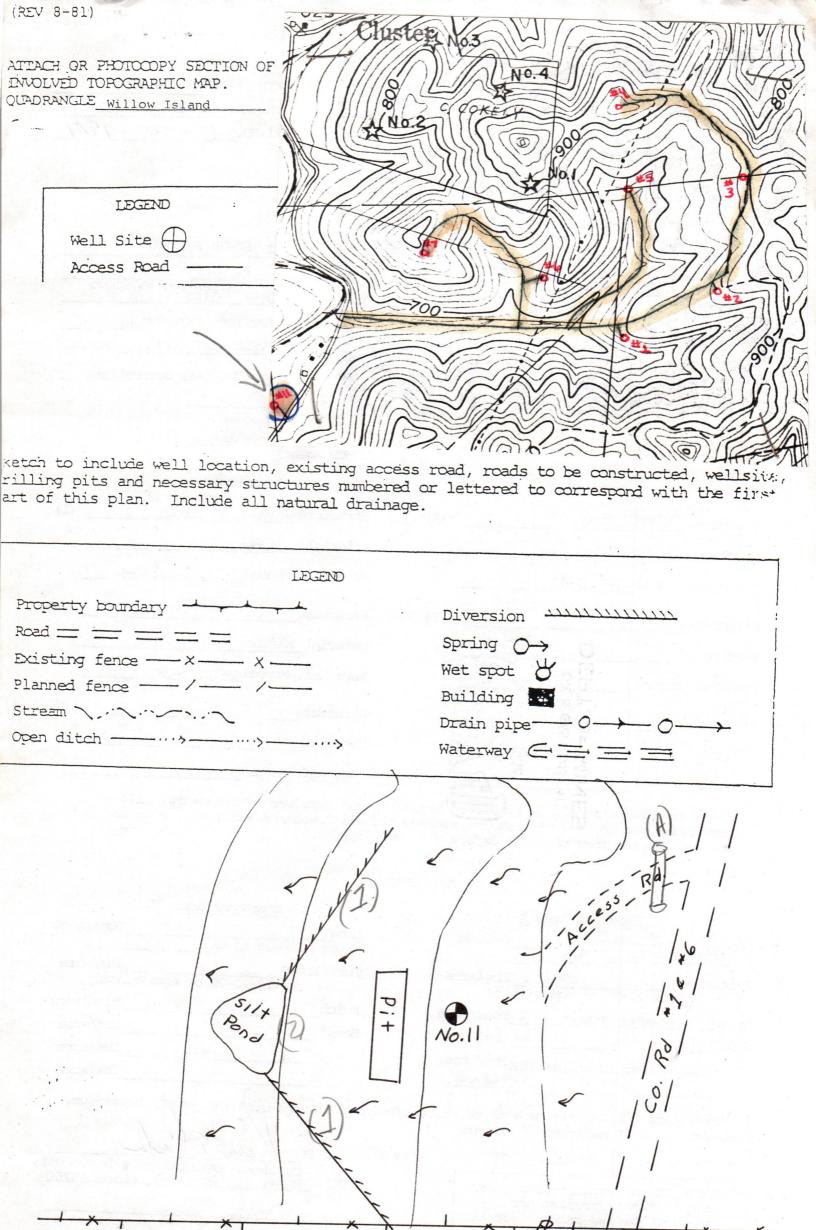
DATE October 16, 1984

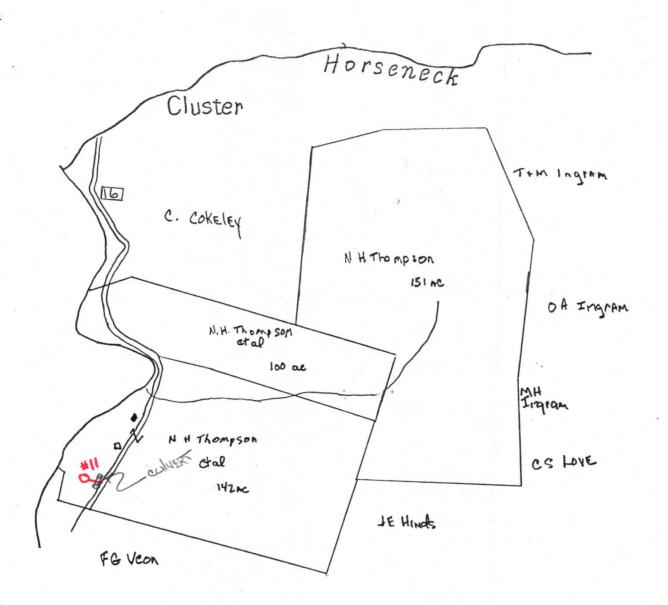
WELL NO. N. Thompson #11 API NO. 47 - 073

State of Mest Airginia

Beparlment of Mines Gil und Gas Zivision

CONSTRUCTION AND I	
COMPANY NAME CUYAHOGA EXP. & DEV. CORP.	DESIGNATED AGENT ROGER HUNTER
Address ROUTE #1, MARIETTA, OHIO 45750	Address P. O. Box 1386 Charleston, WV 25325
Telephone 614-374-5414	Telephone 304-347-1100
LANDOWNER Ira Thompson	SOIL CONS. DISTRICT Upper Ohio
Revegetation to be carried out by CUYAHOGA	EXPLORATION & DEVELOPMENT CORP. (Agent)
This plan has been reviewed by Upper	
and additions become a part of this plan:	
and additions because a part of this part.	(Date)
0	Silip R. Brooks
	(SCD Agent)
ACCESS ROAD	LOCATION
	Structure Diversion Ditch (1)
Structure Culvert Pipe (A)	
Spacing . as needed	Material Earthen
Page Ref. Manual 2-7, 2-11	Page Ref. Manual 2-12, 2-13, 2-14
MANUFACTURE CONTRACTOR	Sediment Basin (2)
Structure (B)	Structure
Spacing	Material Earthern & PVC Pipe
III O PERSON	Page Ref. Manual 2-22, 2-23
Page Ref. Manual To Some Co	The state of the s
Structure G G [m] (C)	Structure (3)
F S 1	Material
Spacing 3 8 8	Page Ref. Manual
Page Ref. Manual Zo	The second secon
All structures should be inspected regul	larly and repaired if necessary. All
All structures should be inspected regul commercial timber is to be cut and stacked cut and removed from the site before dirt	
cut and removed from the stee bejoin	work begins.
REVE-₹	TATION ·
	Treatment Area IT
Treatment Area I	Lime Tons/acre
Lime 2 - 3 tons/acre Tons/acre	or correct to pH
or correct to pH 6.5	Fertilizer lbs/acre
Fertilizer 500 lbs/acre (10-20-20 or equivalent)	(10-20-20 or equivalent)  Tons/acre
Mulch Hay or Straw 2 Tons/acre	Milch lbc/acre
Seed* KY 31 40 lbs/acre	Seed*lbs/acre
Red clover & Pasture Mix lbs/acre	lbs/acre
105/acre	and a second sec
Inoculate with 3x recommended and	Cuyahoga Exploration & Dev. Cor
MOTES: Please request landounce:	ADDRESS Route #1, Marietta, Uliu
cooperation to protest will	/ Vertical distriction
sectling for one growing season.  Attach separate shoots as	614-374-5414
necessary for comments.	PHONE NO. 614-374-5414





REC

THompson #11

FORM IV-2(A) Obverse [8-83]	1) Date: October 25 ,19 84 2) Operator's Well No. N.H. Thompson # 11 3) API Well No. 47 - 073 - 1901 State County Permit DEPARIMENT OF MINES, OFFICE OF OIL & GAS
	NOTICE OF APPLICATION FOR A WELL WORK PERMIT
4) SURFACE OWN	JER(S) OF RECORD TO BE SERVED 5(i) COAL OPERATOR N/A
(i) Name	Address
Address_ (ii) Name_	Ira Lee Thompson  3915 Ninth St. Parkersburg, W. Va. 26101 Ruth Ann Thompson 3915 Ninth St. Parkersburg, W. Va. 26101  Parkersburg, W. Va. 26101  Name Address  Address
(iii) Name	Louella Carol Thompson
Address	513 Dean St. Address
_	Parkersburg, W. Va. 26101  5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  Name  Address
	TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:
	(1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;  (2) The plat (surveyor's map) showing the well location on Form IV-6; and  (3) The Construction and Reclamation Plan on Form IV-9 )unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.  THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS RECARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.
	Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or person the day of mailing or delivery to the Administrator.
	6) EXTRACTION RIGHTS
	Check and provide one of the following:  Included is the lease or leases or other continuing contract or contracts by which  I hold the right to extract oil or gas.  The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics)
	7) ROYALTY PROVISIONS  Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
	If the answer above is No, nothing additional is needed. If the answer is Yes O you may use Affidavit Form IV-60.
	See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.
Notice and Ap and sworn to signed on beh in my County Donald this 30 day of	Address Route #1
anthe	S Beckfoed  lic, Washington County, CYNTHIA S. BECKFORD  Notary Public, State of Ohio  My Commission Expires April 18, 1980

### 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 owner(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-lb and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-l2a, and (v) if applicable, the consent 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, 22-4-2a, 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 oath 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-

- (1) 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
Cuyahoga Land		87.5	
Ira Lee Thompson (husband Ruth Ann Thompson(wife) Louella Carol Thompson	<b>1)</b>	12.5	196-316 196-316 196-316



# AFFICANTE OF TERSONAL SERVICE ON SURFACE CHAR

STATE OF Ohio COUNTY OF Washington
The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of—  (1) Notice on Form IV-2(A) / Form IV-3(A) / Form IV-4(A) /  (2) Application on Form IV-2(B) / Form IV-3(B) / Form IV-4(B) /  (3) Plat showing the well location on Form IV-6, and  (4) Construction and Reclamation Plan on Form IV-9 (unless the application is to plug a well) all with respect to operator's Well No. N.H. Thompson #11 located in Jefferson District, Pleasants County, West Virginia, upon the person or organization named—
M. H. Thompson
by delivering the same in Alexants County, State of on the 29 day of October, 1984 in the manner specified below.
[COMPLETE THE APPROPRIATE SECTION]
For an individual: .  [ ] Handing it to him / her / or, because he / she / refused to take it when I offered it, by leaving it in his / her / presence.
[ ] Handing it to a member of his or her family above the age of 16 years  who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.
For a partnership:  [ ] Handing it to  partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.
For a limited partnership:  [ ] Handing it to the general partner, named  because the general partner refused to take it when I tried to hand it  over, by leaving it in the presence of the general partner.
For a corporation:  [ ] Handing it to the corporation's employee / officer / director attorney in fact / named
(Signature of person executing service)  Taken, subscribed and sworn before me this 29 day of Delsberg, 198%.
My commission expires  CYNTHIA S. BECKFORD  Notary Public, State of Ohio  My Commission Expires April 18, 1989  Notary Public  Notary Public
(AFFIX SFAL IF NOTARIZED IF OUTSIDE THE STATE)

### SURFACE OWNER'S COPY



1)	Date: UCTO	Der	25 ,	19
2)	Operator's Well No.	12 . 17	Thompson 41	N CON MECH
3)	API Well No.	47	073	at local
,		State	County	Permit

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

4)	WELL TYPI								, D	/ Challens /
						<b>基性的技术</b> <b>2</b>			/ Deep	/ Shallow/)
5)	LOCATION			643.4				l: Bull Cases		illow Island
				effer		,		D) DESIGNATE	D AGENT	AND THE SECTION FOR THE PERSON WELL AND THE PERSON STATES.
6)	WELL OPE			B END	IOSAI	3 (38) X	L MORY	Address	P. O. Box 138	
	Address	The second second	ute #3	. Ohio	- AE	MEG		Audress	The state of the s	
-	011 0 010	A STATE OF THE STA				7.343			CONTRACTOR:	
8)	OIL & GAS	Robe		ther	IED				t vet determin	
	Name	The second second	NAME OF TAXABLE PARTY.	liver	7			Address		
	Address			me, W		149				
	PROPOSED			Drill	20	/ Drill	deeper	/ Redrill	/ Stimulate	
10)	PROPOSEL	WELL V	VOKK:		March To State of Concession of the			erforate new formation	nX/	
					hysical	change in	well (specify)			
11)	GEOLOGIC	TAI TAR	ET FOR			Devon	ian Shale	Benson form	ition	
	12) Estimat					.000		feet		
	13) Approx					100	feet;	salt, 1,500	feet.	
	14) Approx	imate coal	seam den	ths: not	appl	licabl	9	Is coal being mined in t	he area? Yes	/ No/
15)	CASING A	ND TUBI	NG PROC	GRAM						
	15) CASING AND TUBING PROGRAM  PACKERS    FOOTAGE INTERVALS   PACKERS									
	SING OR			IFICATIONS	3			Section 2 Told Section 2	ODSACKS	
	SING OR BING TYPE	Size	SPEC	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	expansion of the street exist.
TU	BING TYPE	Size		Weight	1	Used				Kinds
Conc	BING TYPE	Size	SPEC	Weight	1	Used	For drilling			Kinds
Conc	ductor	Size 11 3/4 9 5/4	SPEC	Weight per ft.	1	Used	For drilling	Left in Soll	(Cubic feet)	Kinds
Conc Fresh Coal	ductor	Size 3/4	SPEC	Weight per ft.	1	Used	For drilling	Left in bold	(Cubic feet)	Sizes
Conc Fresh Coal Inter	ductor h water	Size 11 3/4 9 5/4	SPEC	Weight per ft.	New X	Used	For drilling	Left in Seal	(Cubic feet)	
Conc Fresh Coal Inter	ductor h water mediate	11 3/4 9 5/8 7	SPEC	Weight per ft.	New X	Used	For drilling 60 \$ 200 \$ 2500 \$ 5000 \$	Left in Seal	(Cubic feet)	Sizes  Depths set
Conce Fresh Coal Inter	ductor h water mediate duction	11 3/4 9 5/8 7	SPEC	Weight per ft.	New X	Used	For drilling	Left in Soll	(Cubic feet)	Sizes  Depths set  Perforations:
Conc Fresh Coal Inter Prod	ductor h water mediate duction	11 3/4 9 5/8 7	SPEC	Weight per ft.	New X	Used	For drilling 60 \$ 200 \$ 2500 \$ 5000 \$	Left in well	(Cubic feet)	Sizes  Depths set
Conc Fresh Coal Inter Prod	ductor h water mediate duction	11 3/4 9 5/8 7	SPEC	Weight per ft.	New X	Used	For drilling 60 \$ 200 \$ 2500 \$ 5000 \$	Left in Soll	(Cubic feet)	Sizes  Depths set  Perforations:
Conc Fresh Coal Inter Prod	ductor h water mediate duction	11 3/4 9 5/8 7	SPEC	Weight per ft.	New X	Used	For drilling 60 \$ 200 \$ 2500 \$ 5000 \$	Left in Soll	(Cubic feet)	Sizes  Depths set  Perforations:
Cond Fresh Coal Inter Prod	ductor h water mediate duction	11 3/4 9 5/8 7	SPEC	Weight per ft.	New X	Used	For drilling 60 \$ 200 \$ 2500 \$ 5000 \$	Left in Soll	(Cubic feet)	Sizes  Depths set  Perforations:

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those materials.

(For execution by corporation, partnership, etc.)	(For execution by natural persons)
NAME: Cayahoya Exploration & Dev Cog.  By Sty Style  Its Vice President Date 19/3/84	Levella Caral Thompson Date: 10/29/84  (Signature)  Puth Completion proce 10/29/84
Its Vice President Date 13/3/84	Quet (Signature) Date: 10/39/84

### INSTRUCTIONS TO SURFACE OWNERS AND **EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT** ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Adminisatrator's office or an Oil and Gas Inspector to obtain a copy of the list.



DIVISION OF OIL & GAS
DEPT. OF ENERGY

	A VI	STU	14.
17	4/4	2	Call
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S.	13.15	THE PLANT	THE STATE OF THE S
TITLE	1	5	- Art
É	CHARLES !!	. H. 111	TATA.
	-		

# State of Mest Birginia

Bepartment of Attness Ewengy Gil and Ges Zivision

Date	1	2/1	3/85		
Operat					
Well N	0.	#1	1		
Farm	Tho	mps	on		
API No	. 47	_	073	-	1901

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas x / Liquid Injection (If "Gas," Production x / Undergrou				ıllow_x_/)
IOCATION: Elevation: 643.4 Watershed But District: Jefferson County Pleas		Quadrangle	⊇ Willow	<u>Island</u>
COMPANY Cuyahoga Exp. & Dev. Corp.				
ADDRESS Route #1, Marietta, Ohio 45750	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Roger Hunter	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 1386, Charleston, WV 25325  SURFACE OWNER Ira Lee Thompson et al	Size 20-16 Cond.			
ADDRESS 3915 Ninth Street, Parkersburg, WV 26101	13-10"			
MINERAL RIGHTS OWNER Ira Lee Thompson et al	9 5/8	205'	205'	205
ADDRESS 3915 Ninth Street, Parkersburg, WV 26101	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Robert General Delivery	7	1879'	1879 <b>'</b>	1000'
Lowther ADDRESS Middlebourne, WV 26149	5 1/2	1079	10//	1000
PERMIT ISSUED 11/13/84	4 1/2		3790'	1911'
DRILLING COMMENCED 1/30/85	3		3/90	1911
DRILLING COMPLETED 2/4/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A	Liners used			
GEOLOGICAL TARGET FORMATION Devonian Shale		Dept	h 3857	feet
Depth of completed well 3857' feet R		/ Cable	Tools	Service of the servic
Water strata depth: Fresh N/A feet;				
Coal seam depths: N/A		being mine	d in the	area? No
OPEN FLOW DATA				
Producing formation Berea	Pay	zone dept	h 2010-202	20 feet
Gas: Initial open flow 55.5 Mcf/d	Dil: Ini	tial open	flow .5	Bbl/d
Final open flow 55.5 Mcf/d				
Time of open flow between initia	al and fi	nal tests	hou	irs
Static rock pressure 300 psig(surface	measurem	ent) after	24 hour	rs shut in
(If applicable due to multiple completion-	-)			
Second producing formation N/A	Pay	zone dept	h N/A	feet
Gas: Initial open flow N/A Mcf/d (				A Bbl/d
Final open flow N/A Mcf/d (				
Time of open flow between initia				
Static rock pressure N/A psig(surface n				
		10		

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHAKE, FIC.

Perforation: From 2005.5 to 2015.5 10' 8 holes, .39 HSC Goex. FRAC: Breakdown at 1550

1 bnmp truck down 42 casing

500 gal

NDF-100 KCF 4200 IPs 30 gal

25 gal to gal Unislik 30 gal Dura Surf

Pump 45,720 gal KCL. Cla Chek 35 gal

:aton

### WEIT TOO

RMATTON COLOR HARD OR SOFT TOP FEET HOTTON FEET Including indication of all fands and Red Rock		, ,		
Ay and Red Rock on Sort 100 FEET HOTTOM FEET Including indication of all and salt water, coal, oil and way and Red Rock 755' 775' 775' 775' 775' 775' 775' 775				
RMATTON COLOR HARD OR SOFT TOP FEET BOTTON FEET Including indication of all and salt water, coal, oil and salt sand when Sand Red Rock				
RMATTON COLOR HARD OR SOFT TOP FEET BOTTON FEET Including indication of all and salt water, coal, oil at water sand we know Sant Sand (1019) (1260) (				
RMATTON COLOR HARD OR SOFT TOP FEET BOTTON FEET Including indication of all and salt water, coal, oil an as salt water, coal, oil an as salt water, coal, oil an as salt sand sand salt sand sand salt sand sand sand salt sand sand sand sand sand sand sand sand				
ANATION COLOR HARD OR SOFT TOP FEET BOTTOM FEET and salt water, coal, oil at any and Red Rock				
ANATION COLOR HARD OR SOFT TOP FEET BOTTOM FEET and salt water, coal, oil at any and Red Rock				
ANATION COLOR HARD OR SOFT TOP FEET BOTTOM FEET and salt water, coal, oil at a salt water, coal, oil at a salt water, coal, oil at a salt sand task and salt sand task and tas				
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	דוצרוס דום דום דום בין כין בין דובי	BOLLOW FEET	TOP FEET	THOS AO CHAH AOLOO NOTTAMA
KEWDEKE	REMARKS.	CALL TAIL		

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Well Operator Cuyahoga Exploration and Development Corporation

BY: Field Co-ordinator

detailed geological record of all formations, including Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic

Date:

### INSPECTOR'S PERMIT SUMMARY FORM

(11-13-84)

WELL TYPE  ELEVATION  DISTRICT Efflison  QUADRANGIE  COUNTY Plasants		OPERATO TELEPHO	OPERATOR Cuyahoga Exp& Dec				
QUADRANGLE	2	FARM	FARM Hompson				
COUNTY AREA	saus	WELL #_					
SURFACE OWNE	R	COMMENTS	TEI	LEPHONE			
TARGET FORMA	TION	DATE APPLI	CATION RECEIVED	0			
DATE STARTED LOCATION		NOTIFIED	DRILLING (	COMMENCED			
WAMED DEDMIC							
		,					
COAL DEFINE	,	,	,				
		CASING					
Ran	feet of _	"pipe on_	with_	fill up			
Ran	feet of _	''pipe on	with_	fill up			
Ran	feet of _	"pipe on_	with_	fill up			
Ran	feet of _	''pipe on	with	fill up			
TD	feet on						
		PLUGGING					
		THOUGHA					
Type		From	То	Pipe Removed			
,				1144			
				PERMIT			
				DEPARTMENT OF LIE			
				DEPARTMENT OF THE			
Pit Discharg	ge date:	Type		1 1 m 1 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Pit Discharg			c1	The Property of the same of			

VI -27



7 1986 APR

Well TYPE: 011

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

Liquid Injection\_\_\_/ Waste Disposal\_\_\_/

Well No:			pr		1/	11	0 6
API NO: 47 - 073 /70	We 11	Nq/	:		11		10 .
State County Perm	API	NO:	47	- 1	7	3	190
State County Ferm		7	Stat	е	Cour	nty	Permi

	Of "Gas" - Production // Storage / Deep / Shallow //
LOCATION:	Elevation: Watershed: Bull Greek
	District: Jefferson County: pleasants Quadrangle: willow Islan
WELL OPERAT	ORCUM RUGE EXPT DES DESIGNATED AGENT KOREN HUNTER
Addres	s R# 1 1 Address P. O. B. 1386
	marrietta o Charleston W.Va.
	The above well is being posted this 3 day of apply, 1986, for a
violation o	of Code 22B-1-30 and/or Regulation, set/forth in detail as follows:
	(USE REVERSE SIDE OF THIS NOTICE OF NECESSARY)
Failure to	Reclaim well site within 6 months after of Dielling in Compliance with Reclamation
Completion	of Dulling in Compliance with Reclamation
Plan we	elsite needs Lime & Fertilizer
7 3000 17	
А сору	of this notice has been posted at the well site and sent by certified or
registered	mail to the indicated well operator or his designated agent.
	e hereby granted until apulo, 1986, to abate this violation.
	e to abate the violation may result in action by the Department under
Code 22B, A	Article 1.
	Robert A. Low the
	Oil and Gas Inspector
	Address middlebourne
	1. 12
	$-\omega, \sigma_a$
	Telephone: 758-4764