



1) Date: November 8, 19 84
 2) Operator's Well No. N.H. Thompson #1
 3) API Well No. 47 - 073 - 1922
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 762.6 Watershed: Bull Creek
 District: Jefferson County: Pleasants Quadrangle: Willow Island
 6) WELL OPERATOR Cuyahoga Exploration & Dev. 7) DESIGNATED AGENT Roger Hunter
 Address Route #1 12125 Address P. O. Box 1386
Marietta, Ohio 45750 Charleston, WV 25325
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name not yet determined
 Address General Delivery Address _____
Middlebourne, WV 26149
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Devonian Shale Benson formation
 12) Estimated depth of completed well, 5,000 feet
 13) Approximate trata depths: Fresh, 100 feet; salt, 1,500 feet.
 14) Approximate coal seam depths: not applicable Is coal being mined in the area? Yes _____

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4		38.0	X		60'	60'		Kinds
Fresh water	9 5/8		36.0	X		200'	200'	100 sacks	<i>CTS by rule 15.05</i>
Coal									Sizes
Intermediate	7		20.0	X		2500'	2500'	300 sacks	
Production	4.5		10.5	X		5000'	5000'	300 sacks	Depths set
Tubing									<i>was required by rule 15.01</i>
Liners									Perforations: Top Bottom

RECEIVED
 NOV 13 1984
 DEPT. OF MINES
 OIL & GAS DIVISION

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-073-1922 Date December 13, 19 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 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 13, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>52</u>	<u>SW</u>	<u>ML</u>	<u>ML</u>	<u>1106</u>

Margaret Hesse
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



OFFICE USE ONLY

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

RECEIVED

**DEPT. OF MINES
OIL & GAS DIVISION**

10) PROPOSED WELL WORK: New well formation, Reformation of old formation, Other physical change in well (specify):

11) GEOLOGICAL TARGET FORMATION: Devonian, Scale Benson formation

12) CASING AND TUBING PROGRAM:

(a) approximate casing depths: not applicable

(b) approximate mud depth: 400

(c) estimated depth of completed well: 5,000

13) DESIGNATED AGENT: LOCKY HANCOCK, E. O. Box 1846, Charleston, W. Va. 25325

14) OIL & GAS INSPECTOR TO BE NOTIFIED: Robert Lowther, General Delivery, Middlebourne, W. Va. 26113

15) WELL OPERATOR: GYENOS EXPLORATION & DEV., Route #1, Marietta, Ohio 45750

16) LOCATION: Elevation: 762.6, Well Name: Willow Island

OFFICE USE ONLY

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		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____

Reason: _____

RECEIVED



DATE October 16, 1984

IV-9
(Rev 8-81)

NOV 13 1984

WELL NO. N. Thompson #1

State of West Virginia

API NO. 47 - 073 - 1972

OIL & GAS DIVISION Department of Mines
DEPT. OF MINES Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME CUYAHOGA EXP. & DEV. CORP. DESIGNATED AGENT ROGER HUNTER
Address ROUTE #1, MARIETTA, OHIO 45750 Address P. O. Box 1386
Telephone 614-374-5414 Telephone Charleston, WV 25325
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 Ohio SCD. All corrections and additions become a part of this plan: 10-19-84 (Date)

Philip R. Brooks
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>Culvert pipe 20" x 35'</u> (A)	Structure <u>Diversion Ditch</u> (1)
Spacing <u>Every 300' - 500' as needed</u>	Material <u>Earthen</u>
Page Ref. Manual <u>2-7 to 2-11</u>	Page Ref. Manual <u>2-12, 2-13, 2-14</u>
Structure _____ (B)	Structure <u>Sediment Basin</u> (2)
Spacing _____	Material <u>Earthen & PVC outlet</u>
Page Ref. Manual _____	Page Ref. Manual <u>2-22, 2-23</u>
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I	Treatment Area II
Lime <u>2 - 3 tons/acre</u> Tons/acre or correct to pH <u>6.5</u>	Lime _____ Tons/acre or correct to pH _____
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer _____ lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay or Straw</u> 2 Tons/acre	Mulch _____ Tons/acre
Seed* <u>KY 31</u> 40 lbs/acre	Seed* _____ lbs/acre
<u>Red clover & Pasture Mix</u> 5 lbs/acre	_____ lbs/acre
_____ lbs/acre	_____ lbs/acre

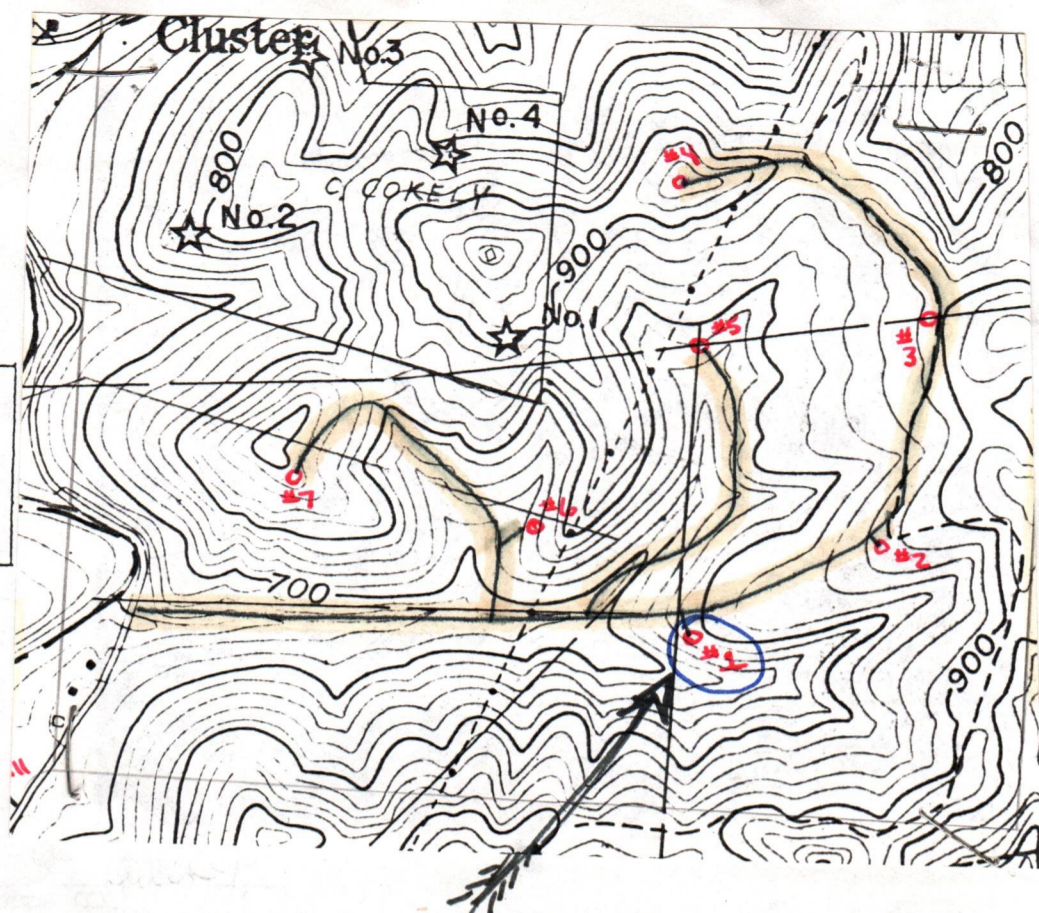
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Robert E. Carlson
Cuyahoga Exploration & Dev. Corp.
ADDRESS Route #1, Marietta, Ohio 45750

PHONE NO. 614-374-5414

NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Willow Island



LEGEND

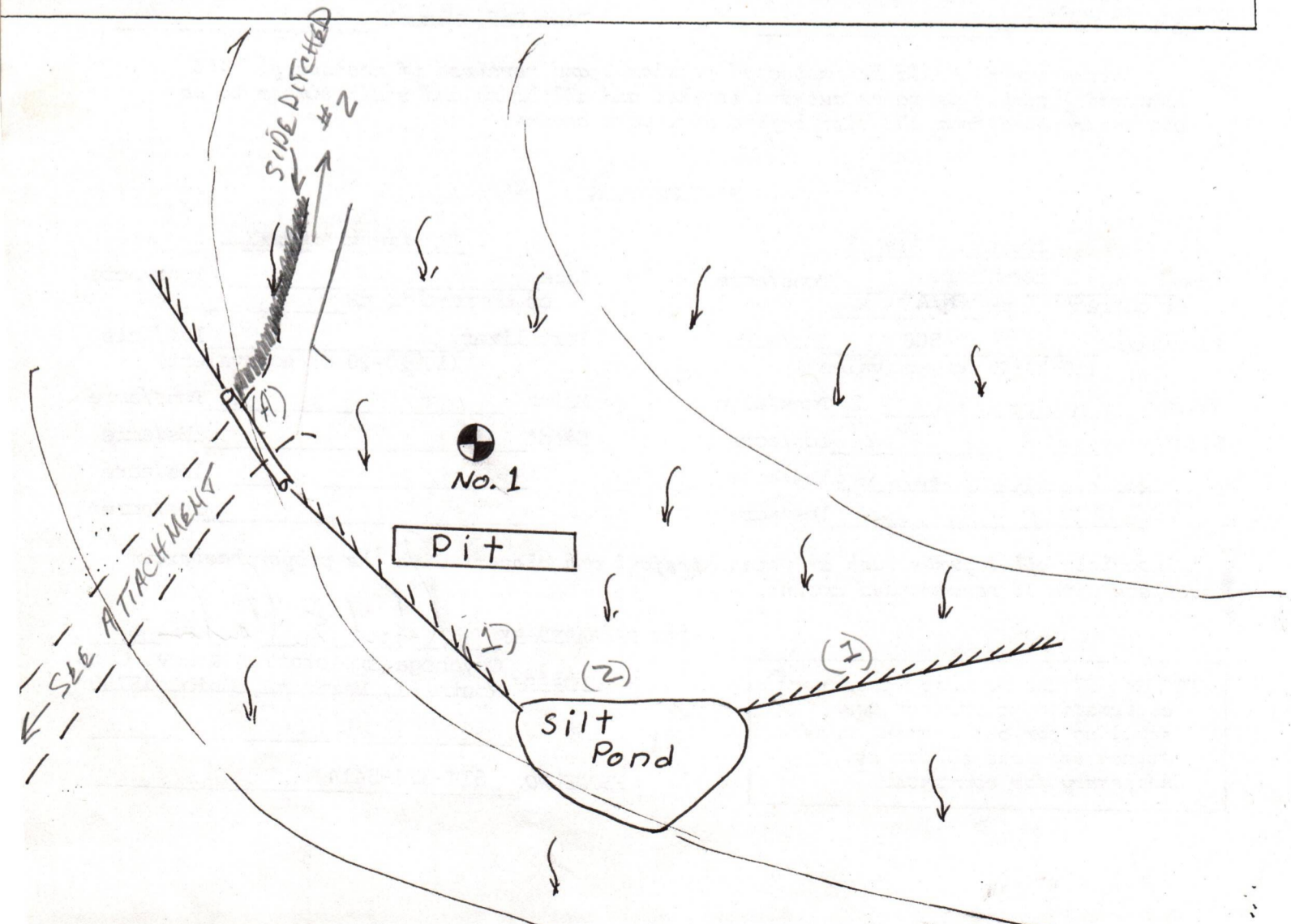
Well Site ⊕

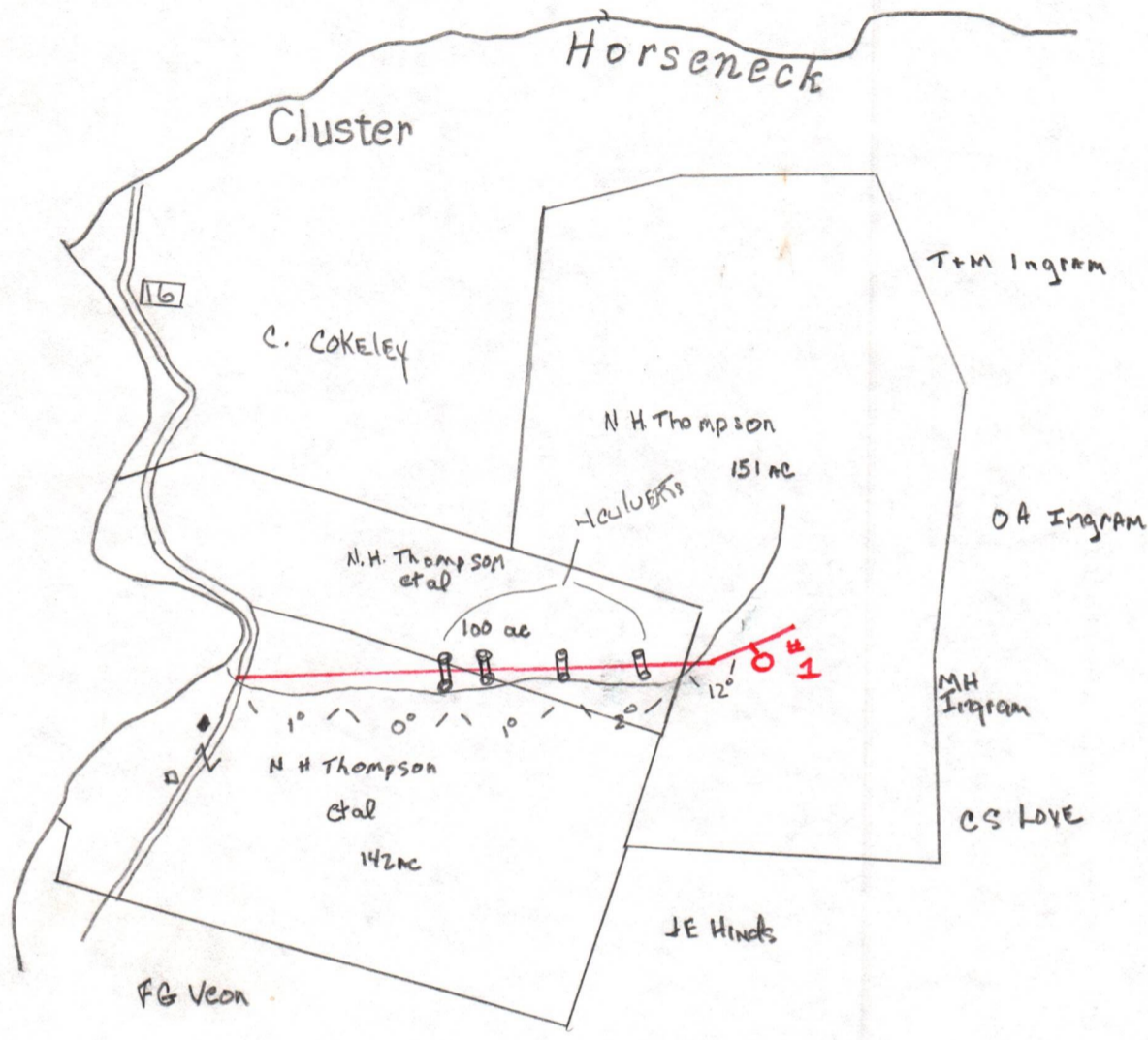
Access Road ———

Sketch to include well location, existing access road, roads to be constructed, well sites, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ——— ——— ——— ——— ———	Diversion ———/———/———/———/———
Road = = = = =	Spring ○ →
Existing fence ———x———x———	Wet spot ⊖
Planned fence ———/———/———	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe —○→○→○→○→
Open ditch ——— ——— ——— ——— ———	Waterway ≡ ≡ ≡ ≡





REC

THOMPSON #1

AFFIDAVIT OF PERSONAL SERVICE ON SURFACE OWNER

Thompson #1

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. #1 _____ located in
Jefferson District, Pleasants County, West Virginia,
upon the person or organization named--

Chas Lee & Ruth Ann Thompson and Luella Carol Thompson

--by delivering the same in Wood County, State of West Virginia
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 named _____ 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 _____, a partner of the 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 _____, or, 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 _____.

Small Elliott
(Signature of person executing service)

Taken, subscribed and sworn before me this 8th day of November, 1984.
My commission expires 5-3-87

Rebecca J. Scott
Notary Public

(AFFIX SEAL IF NOTARIZED IF OUTSIDE THE STATE)

REBECCA J. SCOTT
Notary Public, Washington County, Ohio

My Commission Expires 5-3-87

1) Date: November 8, 1984
2) Operator's
Well No. N.H. Thompson #1
3) API Well No. 47 - 073 - 1922
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
- (i) Name Ira Lee Thompson
Address 3915 Ninth St.
Parkersburg, WV 26101
 - (ii) Name Ruth Ann Thompson
Address 3915 Ninth St.
Parkersburg, WV 26101
 - (iii) Name Louella Carol Thompson
Address 513 Dean St.
Parkersburg, WV 26101

- 5(i) COAL OPERATOR N/A
Address _____
- 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
- Name _____
Address _____
- 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 REGARDING 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.

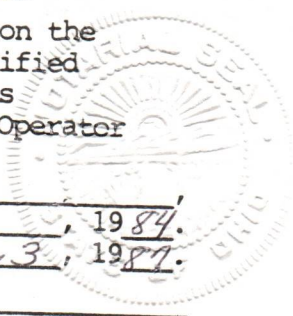
Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to 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 before 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, you may use Affidavit Form IV-60.

RECEIVED
NOV 13 1984
OIL & GAS DIVISION
DEPT. OF MINES

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.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Robert E. Carloni
this 8 day of November, 1984.
My commission expires May 3, 1987.
Rebecca J. Scott
Notary Public, Washington County,
State of Ohio



WELL OPERATOR Cuyahoga Expl. & Development Cor
By Robert E. Carloni
Its Office Manager
Address Route #1
Marietta, OH 45750
Telephone (614) 374-5414

I N S T R U C T I O N S T O A P P L I C A N T

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 § 22-4-1b(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 § 22-4-1k 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 § 22-4-1k(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 § 22-4-1a(c) and 22-3-12a, 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 § § 22-4-1m, 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 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 & Ruth Ann Thompson		12.5	196-316
Louella Carol Thompson		12.5	196-316





1) Date: November 8, 19 84
 2) Operator's Well No. N.H. Thompson #1
 3) API Well No. 47 State 073 County Permit

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 762.6 Watershed: Pull Creek
 District: Jefferson County: Pleasants Quadrangle: Willow Island
 6) WELL OPERATOR Cuyahoga Exploration & Dev. 7) DESIGNATED AGENT Roger Hunter
 Address Route #1 Address P. O. Box 1386
Marietta, Ohio 45750 Charleston, WV 25325
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name not yet determined
 Address General Delivery Address _____
Middlebourne, WV 26149
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Devonian Shale Benson formation
 12) Estimated depth of completed well, 5,000 feet
 13) Approximate trata depths: Fresh, 100 feet; salt, 1,500 feet.
 14) Approximate coal seam depths: not applicable Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4		38.0	X		60'	60'		Kinds
Fresh water	9 5/8		36.0	X		200'	200'	100 sacks	Sizes
Coal									Depths set
Intermediate	7		20.0	X		2500'	2500'	300 sacks	Perforations:
Production	4.5		10.5	X		5000'	5000'	300 sacks	Top
Tubing									Bottom
Liners									

RECEIVED
 NOV 18 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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.)
 NAME: Cuyahoga Expl. & Dev. Corp.
 By Robert E. Carloni
 Its Office Mgr. Date 11/8/84

(For execution by natural persons)
Lucella Carol Thompson Date: 10/29/84
 (Signature)
Ira J. Thompson Date: 10/29/84
 (Signature)
Ruth Ann Thompson Date: 10/22/84



**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 Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.



2200 BENDEN DR.
WOOSTER, OHIO 44691
216-264-2120

CUSTOMER
ADDRESS
PERMIT NO.

DATE 4-27-85
ASSOC. NOWSCO REF. NO.
P.O. NUMBER
QUOTE NO.
SERVICE ENG. R. O. S. (K. A. D.)
STATION MGR. APP.

CEMENTING INVOICE NO. 7718
SERVICE ORDER NO. C

I HAVE READ, UNDERSTOOD AND AGREED TO THE TERMS AND CONDITIONS OF THE REVERSE SIDE HEREOF AND REPRESENT THAT I HAVE FULL AUTHORITY TO ACCEPT SAME AND SIGN THIS ORDER. RECEIPT OF MATERIALS & SERVICES ON THIS ORDER ARE HEREBY ACKNOWLEDGED.

NAME OF WELL: 101-682
COUNTY: Adams
STATE: OHIO
TYPE OF TREATMENT: 101-682

PRICE LIST REFERENCE	MATERIAL & EQUIPMENT	QUANTITY	UOM	UNIT PRICE	AMOUNT	PRICE LIST REFERENCE	MATERIAL & EQUIPMENT	QUANTITY	UOM	UNIT PRICE	AMOUNT
701-611	SET UP CHARGE	222	FT				RUBBER/WOOD PLUG				
701-611	ADDITIONAL FOOTAGE		FT				LATCH DOWN PLUG/BAFFLE				
705-622	STANDBY ON CEMENTER		HR				CENTRALIZERS				
717-771	MIILEAGE	15	MI				FLOAT SHOE/AUTO FILL SHOE				
717-773	BULK HAULAGE	117	TM				FLOAT COLLAR/AUTO FILL COLLAR				
717-775	BLENDING CHARGE	151	SK				GUIDE SHOE				
717-774	WAITING TIME ON BULK		HR				CEMENT BASKET				
717-769	RETURNED MATERIAL		TM								
	WIRE LINE		FT								
717-675	CLASS "A" BULK	160	SK								
717-676	CLASS "A" SACKS		SK								
	50/50 POZ 1-1		SK								
	NOWLITE 2-1-8		SK								
717-677	NOWPOZ - FLYASH		SK								
	THIX MIX		SK								
	THIX 0 GEL		SK								
	SLURRY 61		SK								
717-684	CACL2	452	LB								
717-689	GEL - BENTONITE		LB								
717-692	SALT		LB								
321-273	KCL		LB								
717-678	CELLULOSE	90	LB								
717-680	GILSONITE		LB								
717-693	GYPCEM		LB								
717-679	D-19		LB								
717-690	T-10		LB								
	TOTAL										
	EMPLOYEE										

NS15D-F11 • WHITE-ORIGINAL • WHITE-HEAD OFFICE • GREEN-CUSTOMER COPY • YELLOW-STATION COPY • GOLDEN ROD-BOOK COPY

NOWSCO WELL SERVICE
(HEREINAFTER CALLED "NOWSCO")
GENERAL TERMS AND CONDITIONS OF SERVICE

The service consists of delivery to the Customer at the well of the NowSCO product requested by the Customer (hereinafter called "the product") by means of well connections furnished by the Customer, the quantities, pressures and times of delivery being subject to the Customer's directions. The Customer at all times has complete charge, custody, control and responsibility for all tubing or other connections or equipment furnished for the receipt of delivery of the product for the well, the conditions within the well, the drilling or production pipe or other equipment about or in the well and the premises about the well.

In consideration of the prices as set out in its current price schedule, it is understood that NOWSCO Service is offered, furnished and sold only under the following terms and conditions.

(1) A responsible representative of the Customer must be present at all times to designate and provide the point of connection into which the product is to be delivered and to designate the quantities of the product to be delivered, the pressures at which the same shall be delivered, and the times at which the same shall be delivered.

(2) If, in order to gain access to or to return from the well, it is necessary to repair roads or bridges or to provide tractors, vessels or other special means of transportation for NOWSCO equipment, material or personnel, such shall be arranged and paid for by the Customer. The Customer shall be fully responsible for and shall indemnify NOWSCO against any loss arising as a result of any damage to or loss of any of NOWSCO's equipment or materials while same are being transported to or from the well by means furnished or arranged for by Customer or while such equipment or materials are being loaded upon or attached to any special means of transportation furnished or arranged for by Customer.

(3) Except for damage caused solely by negligence of NOWSCO, its agents, servants or employees, Customer will indemnify and save NOWSCO harmless from any loss due to damage not customarily protected against by insurance and arising in the course of the movement of the equipment or materials between the well and the public highway used by NOWSCO in reaching or returning from the well or arising in the course of or in connection with performance of the services contracted for.

(4) While NOWSCO will render the services contracted for to the best of its ability, it does not guarantee any results and, except in the case of gross or willful negligence on its part, shall not be liable or responsible for any damage to the well or any well equipment, any subsurface damage or surface damage arising out of the subsurface damage or operations or for any loss or damage whatsoever including injury to or death of persons, reservoir loss or property damage growing out of or in any way connected with its operation and Customer shall absolve and hold NOWSCO harmless against all liability for any such loss or damage sustained or incurred by Customer or any third party irrespective of the cause.

(5) NOWSCO's equipment, including but not limited to, tubing, surface equipment and related instruments is designed to operate under normal conditions encountered at the service site, industrial facility, the well, on the rig or in the well bore. Under abnormal or bad conditions, NOWSCO's equipment may become stuck and/or chemicals, stranded or broken cables and debris and other hazards. When NOWSCO's equipment is lost during any service application, customer will pay for accrued service performed, up to the time of loss. Customer assumes full responsibility of fishing operations if same are necessary and all cost of recovering lost equipment and all repairs necessary upon recovery, if not recoverable, customer will pay for such lost equipment. Proper credit will be issued for any such equipment subsequently recovered and returned to NOWSCO.

(6) All statements rendered for services performed by NOWSCO shall be paid at its offices in Wooster, Ohio, within thirty days from date of statement. If not paid within thirty days, the unpaid amount of such bill shall bear interest at the rate of one and two percent per month (twenty-four percent per annum) and, if necessary to be collected by an attorney, an additional amount equal to twenty percent of the total amount due shall become due and payable as attorney's fees.

(7) This contract shall be construed in accordance with the laws of the states in which the services are performed.

(8) All of the preceding terms and conditions shall apply in favor of any manufacturer or supplier of any equipment NOWSCO may use in the performance or attempted performance of any of its services.

(9) Prices listed in NOWSCO's current schedule do not include sales or similar taxes and it reserves the right to add such taxes, if any, to its published prices. Any tax based on or measured by the charges made for, or the cash receipts from the sale of materials or products or the rendering of services shall be added to the stated price.

Failure to enforce any or all of the above terms and conditions in a particular instance shall not constitute a waiver of or preclude subsequent enforcement.

No employee or agent of NOWSCO is empowered to alter or waive any of the terms and conditions.

Prices are subject to change without notice.



WR-35

RECEIVED
DEC 16 1985

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date 12/13/85
Operator's Well No. #1 Indson
Farm Thompson
API No. 47 - 073 - 1922

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

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 762.6 Watershed Bull Creek
District: Jefferson County Pleasants Quadrangle Willow Island

COMPANY Cuyahoga Exp. & Dev. Corp.

ADDRESS Route #1, Marietta, OH 45750

DESIGNATED AGENT Roger Hunter

ADDRESS P.P.Box 1386, Charleston, WV 25325

SURFACE OWNER Ira Lee Thompson et al

ADDRESS 3915 9th St. Parkersburg, WV 26101

MINERAL RIGHTS OWNER Ira Lee Thompson et al

ADDRESS 3915 9th St. Parkersburg, WV 26101

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Middlebourne, WV 26149

PERMIT ISSUED 12-13-84

DRILLING COMMENCED 4-26-85

DRILLING COMPLETED 5-2-85

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	207'	207'	207'
8 5/8			
7	1816'	1816'	1000'
5 1/2			
4 1/2	3810'	3810	1994'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3824' feet

Depth of completed well 3824' feet Rotary X / Cable Tools

Water strata depth: Fresh N/A feet; Salt 1566' feet

Coal seam depths: N/A Is coal being mined in the area? No.

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3353-3363 feet

Gas: Initial open flow N/A Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 54 Mcf/d Final open flow 26 Bbl/d

Time of open flow between initial and final tests N/A hours

Static rock pressure 285 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation None Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

FILED 1922

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

RECEIVED
 DEPT. OF ENERGY
 DIVISION OF OIL & GAS
 DEC 10 1982

PERFORATION

3353' - 3363' 10 feet 10 holes

STRIP SHOT 3½ glass goex.

FRAC:

Breakdown 1520 psi

Avg. psi 1781

Acid 350 gal 15%

CL-23- 1 gal

Clatrol III - 35 gal

Inflo-100 - 24 gal

NE-20-1 gal

Clatrol 4 - 2 gal

FE - 1 gal

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock and Clay			0'	700'	
Cow Run			706'	724'	
First Salt Sand			870'	964'	
Second Salt Sand			1142'	1210'	
Third Salt Sand			1251'	1323'	
Maxton			1352'	1397'	
Big Injun-Squaw			1462'	1668'	
Weir			1780'	1996'	
Welsh Stray			1981'	1983'	
Berea			2056'	2058'	
DEVONIAN SHALE			2058'		
Gantz			2172'	2183'	
Thirty foot			2293'	2330'	
Gordon			2436'	2473'	
Speechly/Balltown			2551'	2570'	
TOTAL DEPTH				3824'	

(Attach separate sheets as necessary)

Cuyahoga Exploration & Development Corporation
 Well Operator

By: Timothy Anderson Field Co-ordinator

Date: _____

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
 all encountered in the drilling of a well."

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

1,0786
Thompson #1
-073-1922

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

JAN 13 1986

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR: Cuyahoga Exp. & Dev. Corp.
Address: Route #1
Marietta, Ohio 45750

DESIGNATED AGENT: Roger Hunter
Address: P. O. Box 1386
Charleston, WV 25325

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth: 3824'
Perforation Interval: 3353' - 3363'

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 11.0)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA

START OF TEST-DATE 7/6/85	TIME N/A	END OF TEST-DATE 7/7/85	TIME N/A	DURATION OF TEST 24 hours
TUBING PRESSURE None	CASING PRESSURE N/A	SEPARATOR PRESSURE N/A	SEPARATOR TEMPERATURE N/A	
OIL PRODUCTION DURING TEST 26 bbls.	GAS PRODUCTION DURING TEST 54 Mcf		WATER PRODUCTION DURING TEST & SALINITY .24 bbls. <small>ppm</small>	
OIL GRAVITY N/A	PRODUCING METHOD (flowing, pumping, gas lift, etc.) Flowing			

GAS PRODUCTION

MEASUREMENT METHOD FLANGE TAP <input checked="" type="checkbox"/>	PIPE TAP <input type="checkbox"/>	L-10 <input type="checkbox"/>	POSITIVE CHOKI CRITICAL FLOW PROVER <input type="checkbox"/>
ORIFICE DIAMETER 3/4	PIPE DIAMETER (INSIDE DIAM.) N/A	NOMINAL CHOKE SIZE - IN. N/A	
DIFFERENTIAL PRESSURE RANGE N/A	MAX. STATIC PRESSURE RANGE N/A	PROVER & ORIFICE DIA. - IN. N/A	
DIFFERENTIAL N/A	STATIC N/A	GAS GRAVITY (Air=1.0) MEASURED ESTIMATED 7479	
GAS GRAVITY (Air=1.0) N/A	FLOWING TEMPERATURE 60	GAS TEMPERATURE 60 °F	
24 HOUR COEFFICIENT N/A	24 HOUR COEFFICIENT N/A <small>cuft</small>		
		PRESSURE - N/A <small>psia</small>	

TEST RESULTS

DAILY OIL 26 bbls.	DAILY WATER .24 bbls.	DAILY GAS 54 Mcf.	GAS-OIL RATIO 2076	SCF/STB
-----------------------	--------------------------	----------------------	-----------------------	---------

Cuyahoga Exp. & Dev. Corp.
Well Operator

By: Tom Hudson
Its: Field Co-ordinator

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

RECEIVED

MAY 7 - 1985

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 073-1922

Oil or Gas Well _____
(KIND)

Company <u>Cuyahoga Exp & Dev</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Marietta O</u>	Size			
Farm <u>Thompson</u>	16			Kind of Packer _____
Well No. <u>1</u>	13			
District <u>Jefferson</u> County <u>Pleasant</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed <u>May 2 85</u> Total depth <u>3837</u>	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

May 3, 1985
DATE

R. A. Lowther
DISTRICT WELL INSPECTOR

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

RECEIVED
MAY 3 - 1985
OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1922

Company <u>Cuyahoga Exp</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Marietta O</u>	Size			
Farm <u>N.H. Thompson</u>	16			Kind of Packer
Well No. <u>1</u>	13			
District <u>Jefferson</u> County <u>Pleasant</u>	10	<u>201</u>	<u>201</u>	Size of
Drilling commenced <u>Apr 26 1985</u>	8 3/4			Depth set
Drilling completed <u>1775</u> Total depth	6			
Date shot _____ Depth of shot _____	5 3/16			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top
Volume _____ Cu. Ft.	Liners Used			Perf. bottom
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED <u>9 5/8</u> SIZE <u>201</u> No. FT. <u>4-27-85</u> Date			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY <u>Howseco</u>			
Salt water <u>720</u> feet <u>1635</u> feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Toolpusher m Kerns
Contractor C.T. Drilling Rig 7
Remarks:

Apr 29, 1985
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR

2/16/82

**STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT**

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks:

_____ I hereby certify I visited the above well on this date.

DATE

_____ DISTRICT WELL INSPECTOR

1R-26
Obverse

INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE _____
ELEVATION _____
DISTRICT Jefferson
QUADRANGLE _____
COUNTY pleasant

API# 47-073 - 1922 C12-13-84
OPERATOR Cuyahoga Exp'd Dev
TELEPHONE _____
FARM Thompson
WELL # 1

SURFACE OWNER _____ COMMENTS _____ TELEPHONE _____
TARGET FORMATION _____ DATE APPLICATION RECEIVED _____
DATE STARTED _____
LOCATION _____ NOTIFIED _____ DRILLING COMMENCED _____

WATER DEPTHS _____, _____, _____, _____
COAL DEPTHS _____, _____, _____, _____

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

Type	From	To	Pipe Removed

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

Pit Discharge date: _____ Type _____ MAY 9 1986
Field analysis ph _____ fe _____ cl _____
Well Record received _____

Date Released May 7, 1986

R. A. Lowther
Inspector's signature

API# 47 _____ - _____

LIST ALL VISITS FOR THIS PERMIT

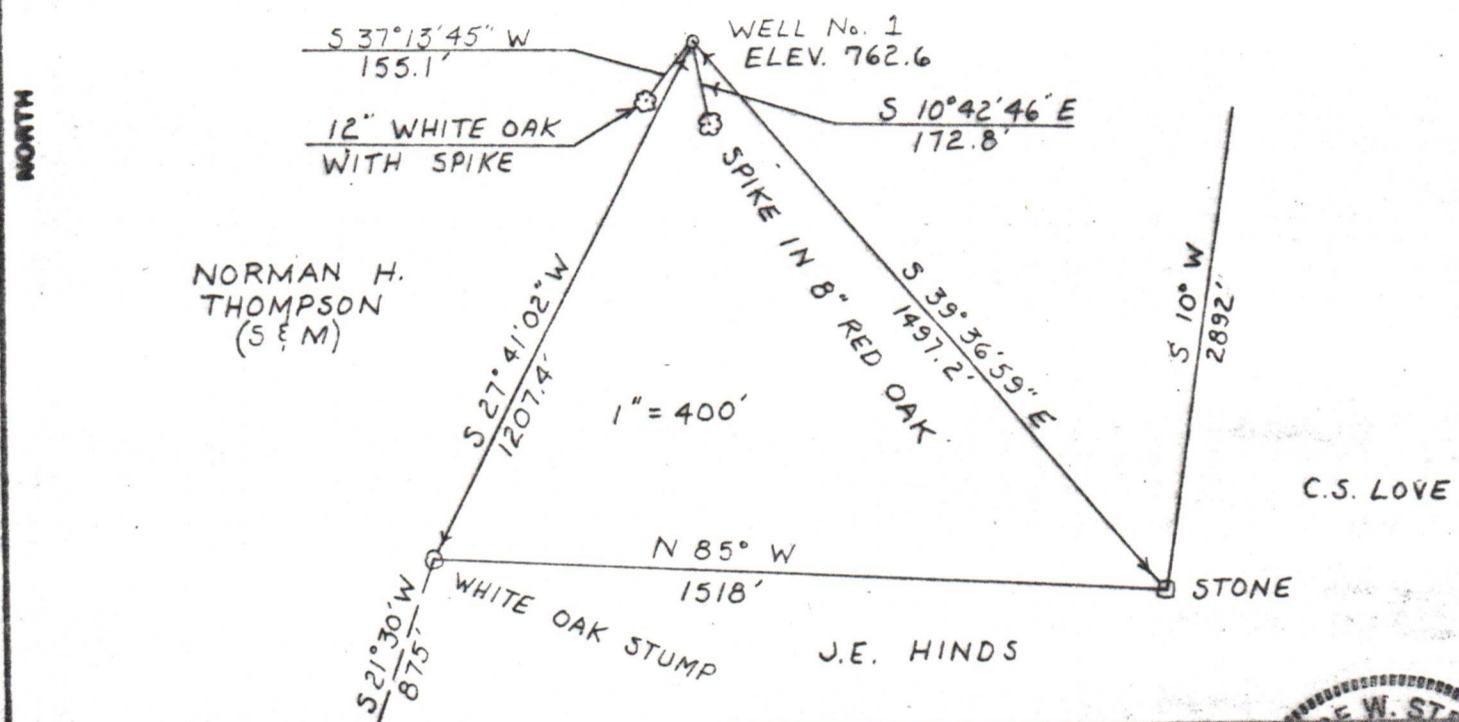
	DATE	TIME	PURPOSE	COMMENTS
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes

YAM

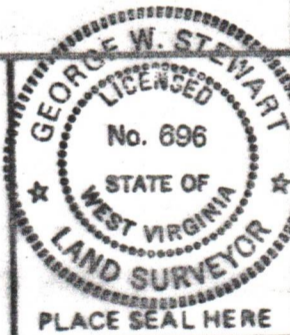
TO THE BEST OF MY KNOWLEDGE
THERE ARE NO WELLS WITHIN
1200' OF THIS LOCATION

1" = 2000'
QUAD. LOCATION



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION U.S.G.S. BM 80 WSM 1956 790

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
(SIGNED) George W. Stewart
R.P.E. _____ L.L.S. 696



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)



DATE October 8, 1984
OPERATOR'S WELL NO. 1
API WELL NO. _____
47 - 073 - 1922
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 762.6 WATERSHED Bull Creek
DISTRICT Jefferson COUNTY Pleasants
QUADRANGLE Willow Island
SURFACE OWNER Norman H. Thompson ACREAGE 393
OIL & GAS ROYALTY OWNER same LEASE ACREAGE 393
LEASE NO. _____
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION shale ESTIMATED DEPTH 5000'
WELL OPERATOR Cuyahoga Explorati DESIGNATED AGENT Roger Hunter
ADDRESS Route 1 ADDRESS P.O. Box 1386
Marietta, Ohio 45750 Charleston, WV 25325