



1) Date: March 23, 19 84  
 2) Operator's James Elliott #2  
 Well No. \_\_\_\_\_  
 3) API Well No. 47 - 073 - 1820  
 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: 678 Watershed: Calf Creek  
 District: Grant 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 <u>CTS NEAL</u>
Fresh water	9 5/8		36.0	x		200'	200'	100 sacks	
Coal									Sizes
Intermediate	7		20.0	x		2500'	2500'	300 sacks	Depths set <u>or as req. by rule</u>
Production	4.5		10.5	x		5000'	5000'	300 sacks	
Tubing									Perforations <u>15.01</u>
Liners									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-073-1820 Date April 2, 1984

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 April 2, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>MH</u>	Casing <u>MH</u>	Fee <u>1015</u>
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*[Signature]*  
 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





STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

OFFICE USE ONLY

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

1) WELL IDENTIFICATION: Well No. \_\_\_\_\_, APT Well No. \_\_\_\_\_, State \_\_\_\_\_, County \_\_\_\_\_, District \_\_\_\_\_, Quarter \_\_\_\_\_, Section \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_, Meridian \_\_\_\_\_.

2) LOCATION: Elevation: \_\_\_\_\_, Direction: \_\_\_\_\_, Underground storage \_\_\_\_\_, Shallow \_\_\_\_\_, Deep \_\_\_\_\_.

3) WELL OPERATOR: Name: \_\_\_\_\_, Address: \_\_\_\_\_.

4) DESIGNATED AGENT: Name: \_\_\_\_\_, Address: \_\_\_\_\_.

5) DRILLING CONTRACTOR: Name: \_\_\_\_\_, Address: \_\_\_\_\_.

6) PROPOSED WELL WORK: Plug off old formation \_\_\_\_\_, Perform new formation \_\_\_\_\_, Other physical change in well (specify): \_\_\_\_\_.

7) GEOLOGICAL TARGET FORMATION: Estimated depth of completed well: \_\_\_\_\_ feet, Approximate true depth: \_\_\_\_\_ feet, Approximate coal seam depth: \_\_\_\_\_ feet, Is coal being mined in the area? Yes/No.

8) CASING AND TUBING PROGRAM: Casing or Tubing Type \_\_\_\_\_, Size \_\_\_\_\_, Grade \_\_\_\_\_, Weight per ft \_\_\_\_\_, New \_\_\_\_\_, Old \_\_\_\_\_, Per drilling \_\_\_\_\_, Footage intervals \_\_\_\_\_, Cement fillup or sack \_\_\_\_\_, Packings \_\_\_\_\_.

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: \_\_\_\_\_

Inspected by	Agent	Plant	Casing	Rec
BPB				



IV-9  
(Rev 8-81)

*Field Review*



DATE March 16, 1984

WELL NO. James Elliott #2

API NO. 47 - 073 -

#2239

State of West Virginia

Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Cuyahoga Exploration & Develop. DESIGNATED AGENT Roger Hunter  
 Address Route #1 Address P.O. Box 1386  
Marietta, Ohio 45750 Charleston, W.Va. 25325  
 Telephone 614/374-5414 Telephone 304/347-1100  
 LANDOWNER James W. & Elaine S. Elliott SOIL CONS. DISTRICT Upper Ohio  
Route #3, St. Marys, WV 26170  
 Revegetation to be carried out by Cuyahoga Exploration & Development (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan: 3/21/84 (Date)

Kenneth D. Mason  
(SCD Agent)

ACCESS ROAD

LOCATION/

Structure Pipe Culvert 15" x 35' (A)  
 Spacing Every 300' or as needed  
 Page Ref. Manual 2-7

Structure Diversion ditch (1)  
 Material Earthen  
 Page Ref. Manual 2-12

Structure \_\_\_\_\_ (B)  
 Spacing \_\_\_\_\_  
 Page Ref. Manual \_\_\_\_\_

Structure Sediment Basin (2)  
 Material Earthen & PVC Outlet  
 Page Ref. Manual 2-23

Structure \_\_\_\_\_ (C)  
 Spacing \_\_\_\_\_  
 Page Ref. Manual \_\_\_\_\_

Structure \_\_\_\_\_ (3)  
 Material \_\_\_\_\_  
 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.

RECEIVED  
APR 16 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

REVEGETATION

Treatment Area I

Treatment Area II

Lime \_\_\_\_\_ Tons/acre  
 or correct to pH 6.5  
 Fertilizer 500 lbs/acre  
 (10-20-20 or equivalent)  
 Mulch Hay or straw 2 Tons/acre  
 Seed\* KY 31 30 lbs/acre  
Birdfoot & Trefoil 30 lbs/acre  
 \_\_\_\_\_ lbs/acre

Lime \_\_\_\_\_ Tons/acre  
 or correct to pH \_\_\_\_\_  
 Fertilizer \_\_\_\_\_ lbs/acre  
 (10-20-20 or equivalent)  
 Mulch \_\_\_\_\_ Tons/acre  
 Seed\* \_\_\_\_\_ 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 Donald M. Schulze  
Cuyahoga Exploration & Development  
 ADDRESS Route #1  
Marietta, Ohio 45750  
 PHONE NO. 614/374-5414

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

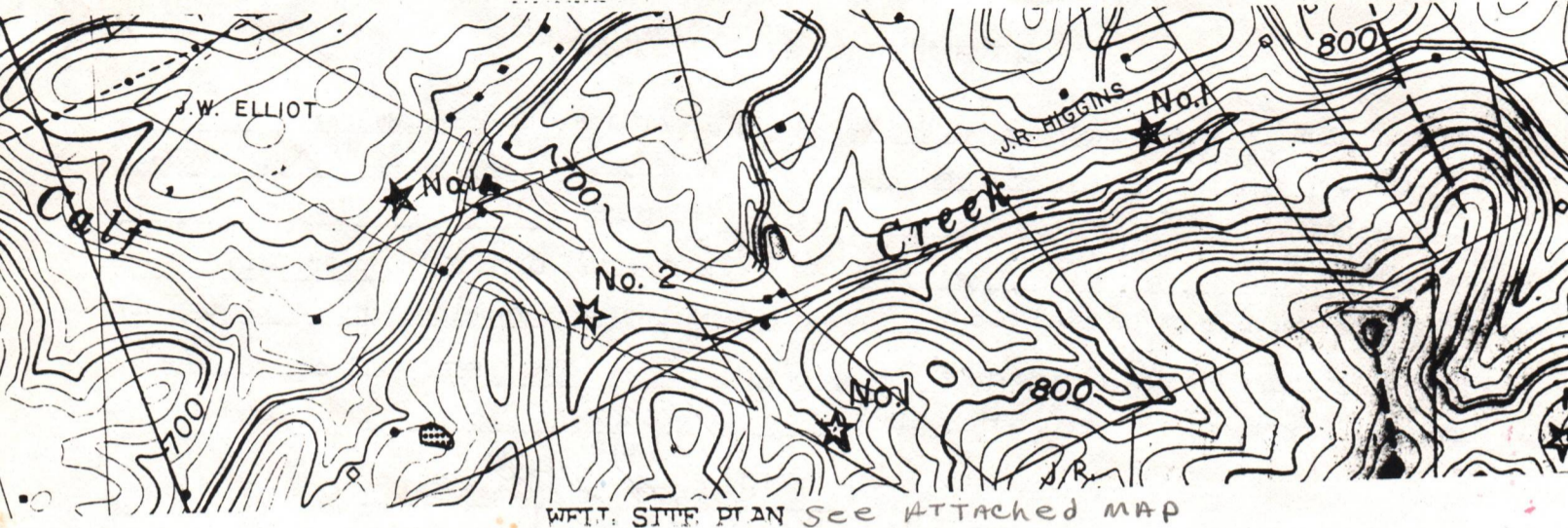


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Willow Island

LEGEND

Well Site ⊕

Access Road ———

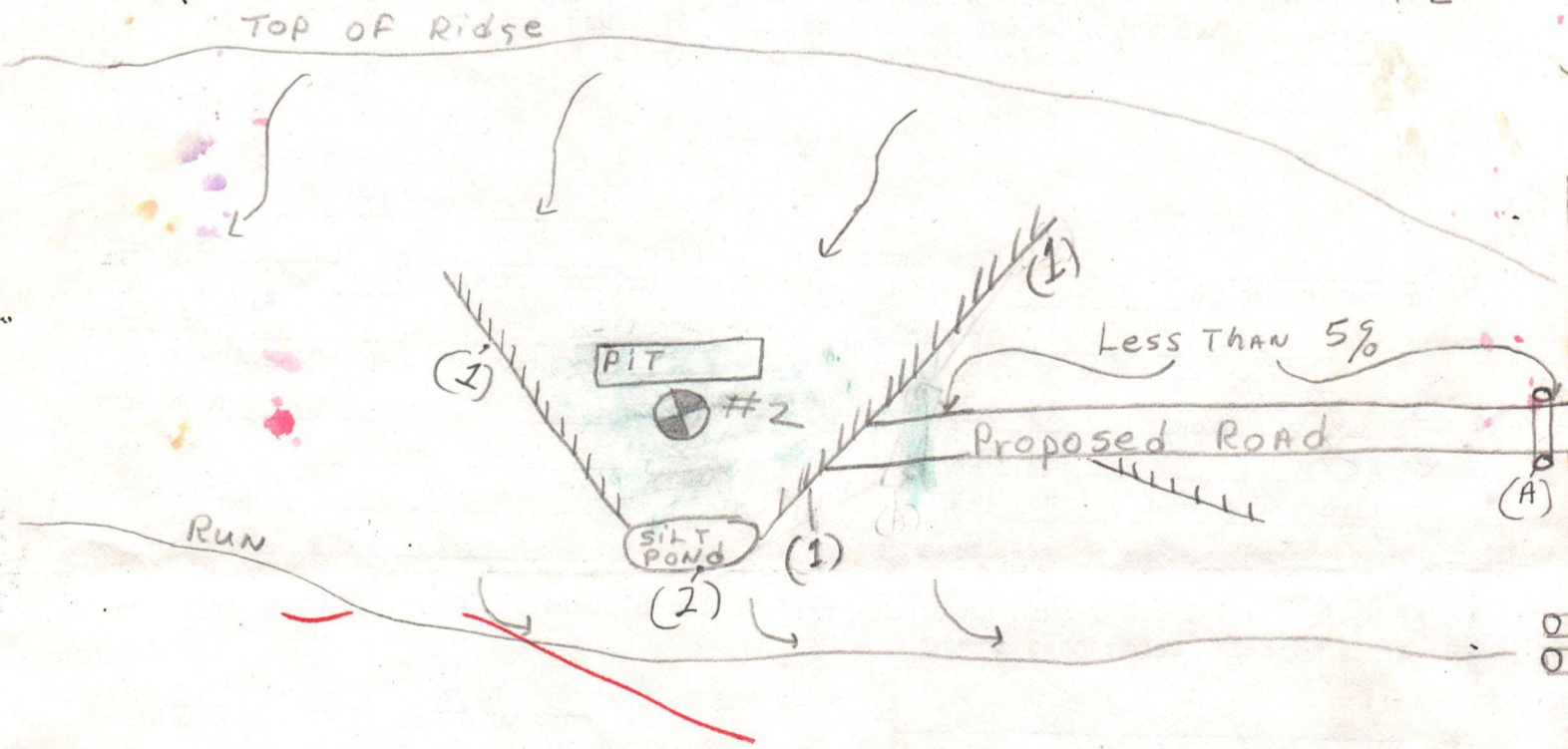


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

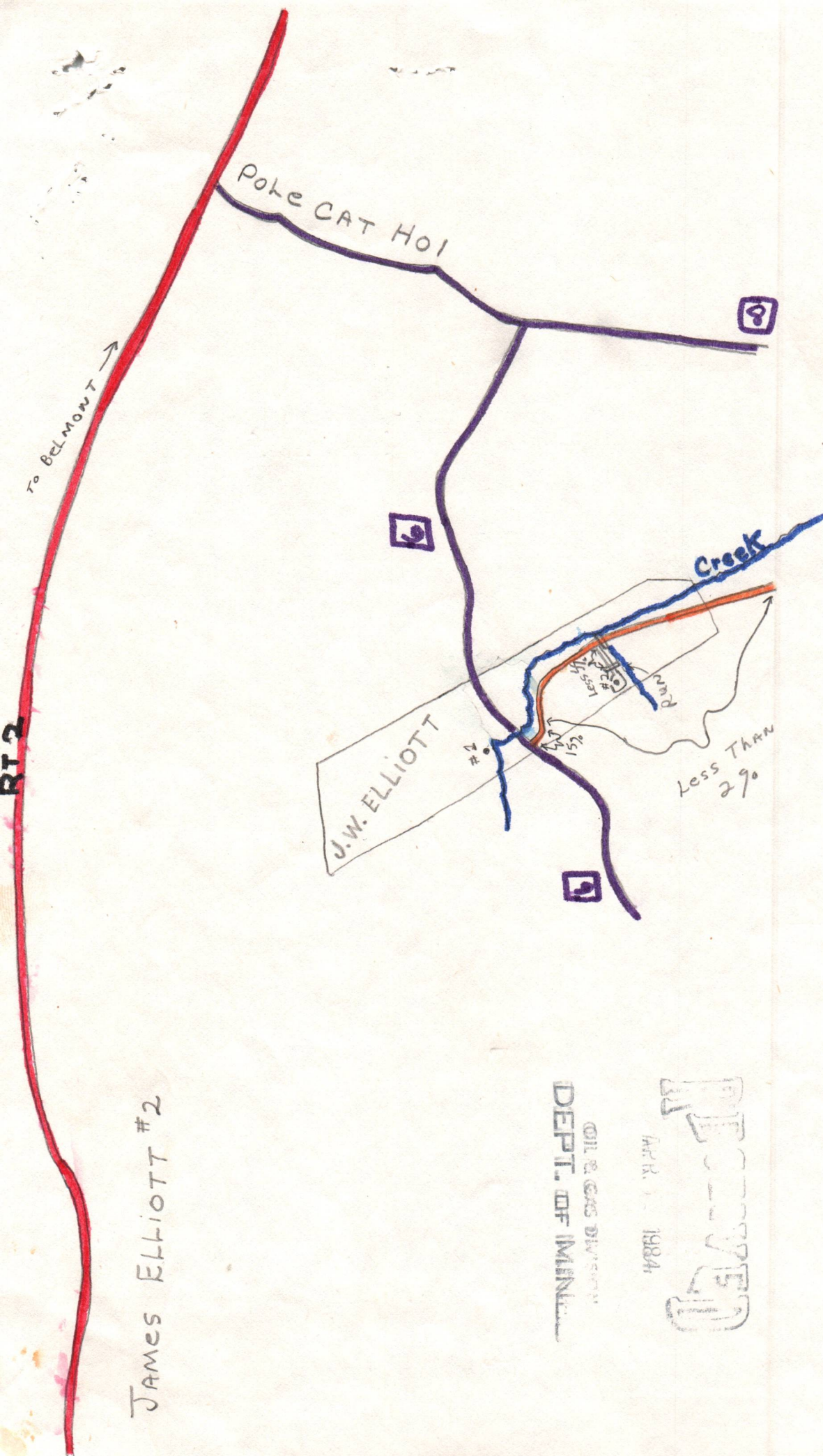
Property boundary ———▲————	Diversion ———▲▲▲▲▲▲▲▲▲▲
Road = = = = =	Spring ○→
Existing fence ———X————X——	Wet spot ☹
Planned fence ———/———/———	Building ■
Stream ~~~~~	Drain pipe —○→○→
Open ditch ———>>>>————>>>>————>>>>	Waterway ←≡≡≡≡≡≡

JAMES ELLIOTT #2



EXISTING LEASE ROAD





JAMES ELLIOTT #2

OIL & GAS DIVISION  
DEPT. OF MINES

APR 11 1984

RECEIVED

- - STATE ROAD
- - COUNTY ROAD
- - EXISTING LEASE ROAD



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 James W. & Elaine S. Elliott  
Address Route #3  
St. Marys, WV 26170  
(ii) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(iii) Name \_\_\_\_\_  
Address \_\_\_\_\_

5(i) COAL OPERATOR N/A  
Address \_\_\_\_\_  
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name N/A  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name N/A  
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.

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.



DEPT. OF MINES  
OIL & GAS DIVISION

RECEIVED  
APR 02 1984

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

Donald M. Schulze  
this 29 day of March, 1984  
My commission expires \_\_\_\_\_, 19\_\_.

Renilda A. McCarthy  
Notary Public, Wood County,  
State of West Virginia

WELL  
OPERATOR Cuyahoga Exploration & Development  
By Donald M. Schulze  
Its Vice President  
Address Route #1  
Marietta, OH 45750  
Telephone 614-374-5414

RENILDA A. MCCARTHY  
Notary Public, West Virginia  
My Commission Expires July 12, 1993



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.

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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 Development 87.5%

James W. & Elaine S. Elliott

186 407





1) Date: March 23, 19 84  
 2) Operator's Well No. James Elliott #2  
 3) API Well No. 47 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 X)
- 5) LOCATION: Elevation:            Watershed:             
 District:            County:            Quadrangle: Willow Island
- 6) WELL OPERATOR Cuyahoga Exploration & Dev. 7) DESIGNATED AGENT             
 Address            Address
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name            Name             
 Address            Address
- 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,             
 12) Estimated depth of completed well,            feet  
 13) Approximate strata depths: Fresh,            feet; salt,            feet.  
 14) Approximate coal seam depths:            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									Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate									Perforations:
Production									Top
Tubing									Bottom
Liners									

RECEIVED  
OIL & GAS DIVISION  
APR 12 1984

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: Cuyahoga Exploration Date: 3-29-84  
 By Donald W. Salinger (Signature)  
 Its Vice Pres. Date: 3/29/84 Elaine S. Elliott (Signature) Date: 3-29-84



**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.



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

RECEIVED

FEB 22 1985

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

(KIND)

Permit No. 073-1820

Company Carp hogg Exp  
 Address Marietta D  
 Farm James Elliott  
 Well No. 2  
 District Grant County Pleasants  
 Drilling commenced 2-15-85  
 Drilling completed \_\_\_\_\_ Total depth 1860  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer
16			
13			
10	217	217	Size of
8 1/4			
6 1/2	1807	1807	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 7 SIZE 1807 No. FT. 2-17-85 Date  
 NAME OF SERVICE COMPANY BJ Hughes  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks:

Feb 19, 1985  
DATE

R.A. Luther  
DISTRICT WELL INSPECTOR



Form 26  
2/16/82

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

RECEIVED  
FEB 25 1982  
OIL & GAS DIVISION

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



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

**RECEIVED**

FEB 26 1985

**INSPECTOR'S WELL REPORT**

OIL & GAS DIVISION  
**DEPT. OF MINES**  
Oil or Gas Well \_\_\_\_\_  
(KIND)

Permit No. 073-1820

Company <u>Cummins Corp</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>Marietta</u>	Size			
Farm <u>James Elliott</u>	16			Kind of Packer _____
Well No. <u>2</u>	13			
District <u>Grant</u> County <u>Pleasant</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed <u>Feb 21 1985</u> Total depth <u>2837</u>	6 3/8			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 \_\_\_\_\_

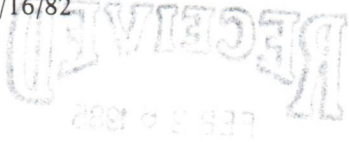
Remarks: \_\_\_\_\_

Feb 22 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





TV 35  
(Rev 8-81)

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. #2  
Farm James Elliott  
API No. 47 - 073 - 1820

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 X / Underground Storage    / Deep    / Shallow X /)

LOCATION: Elevation: 678 Watershed Calf Creek  
District: Grant County Pleasants Quadrangle Willow Island

COMPANY Cuyahoga Exp. & Dev. Corp.  
ADDRESS Route #1, Marietta, Ohio 45750  
DESIGNATED AGENT Roger Hunter  
ADDRESS P.O. Box 1386, Charleston, WV 25325  
SURFACE OWNER James W. & Elaine S. Elliott  
ADDRESS Rt. #3, St. Marys, WV 26170  
MINERAL RIGHTS OWNER James W. & Elaine S. Elliott  
ADDRESS Rt. #3, St. Marys, WV 26170  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
General Delivery  
ADDRESS Middlebourne, WV 26149  
PERMIT ISSUED 4/2/84  
DRILLING COMMENCED 2/16/85  
DRILLING COMPLETED 2/20/85  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON NA

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	200'	200'	200'
8 5/8			
7	1808'	1808'	1000'
5 1/2			
4 1/2		2772'	1000'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 2837' feet  
Depth of completed well 2837' feet Rotary X / Cable Tools  
Water strata depth: Fresh N/A feet; Salt 1574' feet  
Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA  
Producing formation Bera & Gantz Pay zone depth    feet  
Gas: Initial open flow    staged    Mcf/d Oil: Initial open flow    staged    Bbl/d  
Final open flow    staged    Mcf/d Oil: Final open flow    staged    Bbl/d  
Time of open flow between initial and final tests    staged    hours  
Static rock pressure 200 psig (surface measurement) after 12 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Gordon Pay zone depth    feet  
Gas: Initial open flow 14 Mcf/d Oil: Initial open flow .5 Bbl/d  
Final open flow 14 Mcf/d Oil: Final open flow .5 Bbl/d  
Time of open flow between initial and final tests 24 hours  
Static rock pressure 500 psig (surface measurement) after 12 hours shut in

(Continue on reverse side)



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

SECOND STAGE PERFS  
Top Shot 2074' Bottom Shot 2084'  
10' 10 holes  
KSC .39 goex.  
Top Shot 2186' Bottom shot 2202'  
16' 16 holes  
HSC .39 goex.  
FIRST STAGE FRAC  
down 4 1/2 casing  
2 pump trucks  
Acid 15% - 350 gal.  
NDL-100 - 30 gal  
Dura Surf - 30 gal  
Unisluk - 40 gal  
Pen Surf - 25 gal  
Cla Chek - 35 gal  
KCL 4500 lbs KCL pumped 50,300 gal

REMARKS  
Including indication of all fr  
and salt water, coal, oil and

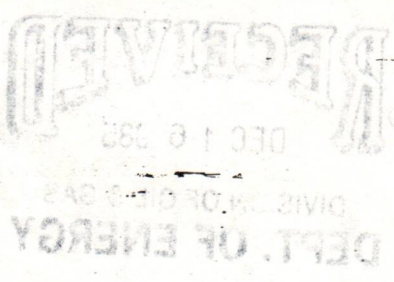
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET
Red Rock & Clay	0'	500'
Cow Run Sand	578'	597'
First Salt Sand	990'	1020'
Second Salt Sand	1213'	1254'
Third Salt Sand	1318'	1339'
Maxton	1406'	1454'
Big Injun-Squaw	1454'	1695'
Welsh Stray	1971'	1975'
Berea	2074'	2080'
Gantz	2184'	2200'
Thirty-foot	2318'	2344'
Gordon	2448'	2486'
Devonian Shale	2080'	2837'

(Attach separate sheets as necessary)

Cuyahoga Exploration and Development Corporation  
Well Operator

By: *[Signature]*  
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  
... encountered in the drilling of a well."



INSPECTOR'S PERMIT SUMMARY FORM

WELL TYPE \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DISTRICT Grant  
QUADRANGLE \_\_\_\_\_  
COUNTY Pleasants

API# 47-073 - 1820 (4-2-84)  
OPERATOR Cuyahoga Exp 8 Dec  
TELEPHONE \_\_\_\_\_  
FARM J Elliott  
WELL # 2

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 \_\_\_\_\_  
Field analysis ph \_\_\_\_\_ fe \_\_\_\_\_ cl \_\_\_\_\_  
Well Record received \_\_\_\_\_ MAY 9 1986

Date Released May 7 1986

R. H. 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

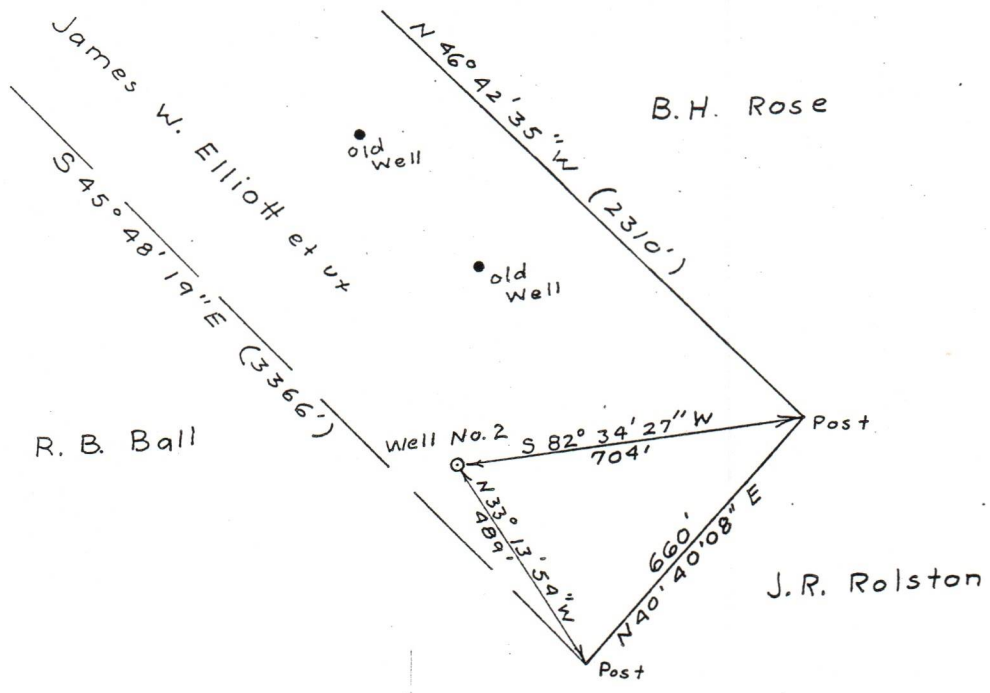
2891 0 YAM



LATITUDE 39° 22' 30"

LONGITUDE 81° 17' 30"

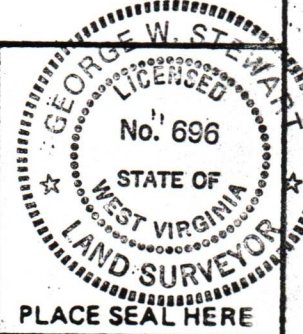
NORTH



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 : 200  
 PROVEN SOURCE OF ELEVATION U.S.G.S. Bench Mark 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) G. W. Stewart  
 R.P.E. \_\_\_\_\_ L.L.S. 696



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



DATE March 6, 1984  
 OPERATOR'S WELL NO. 2  
 API WELL NO. 47 - 073 - 1820  
 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 678 WATER SHED Calf Creek  
 DISTRICT Grant COUNTY Pleasants  
 QUADRANGLE Willow Island  
 SURFACE OWNER James W. Elliott et ux ACREAGE 142  
 OIL & GAS ROYALTY OWNER same LEASE ACREAGE 142  
 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 Exploration DESIGNATED AGENT Roger Hunter  
 ADDRESS Rt. #1 ADDRESS P.O. Box 1386  
 Marietta, Ohio 45750 Charleston, W. Va. 25325