



State of West Virginia
DIVISION OF ENVIRONMENTAL PROTECTION

10 McJunkin Road
Nitro, WV 25143-2506

Gaston Caperton
Governor

David C. Callaghan
Director

DEP/OAG-698

June 10, 1992

Mr. Robert J. Fluharty
Jackson River Oil Company
Post Office Box 878
Spencer, West Virginia 25276

Dear Mr. Fluharty:

Enclosed you will find Underground Injection Control Permit to renew Number UIC2D0871926 dated the tenth day of June, 1992. The permit consists of pages one (1) through eight (8). Be advised that the duration of the permit is for a period of five (5) years from the effective date June 10, 1992.

Also be advised that all conditions established by UIC Permit Number UIC2D0871926, either expressly or incorporated by reference, must be strictly adhered to. All monitoring forms shall be submitted to the Office of Oil and Gas in a manner and at the frequency prescribed. The monitoring forms will be compared with the scope of permitted activity to verify compliance.

Please review the permit carefully and be aware of all permit conditions. Compliance of all permit conditions will be strictly enforced.

The operation of this injection well facility in general, including maintenance of all related surface equipment, shall be conducted so as to preclude any unlawful discharge of waste materials into the surface or ground waters of this state.

Sincerely,

A handwritten signature in cursive script that reads "Michael W. Lewis".

Michael W. Lewis
UIC Program Director
Office of Oil and Gas

MWL/kh

Enclosures as stated

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address (Extra charge)

2. Restricted Delivery (Extra charge)

3. Article Addressed to:
 Mr. Robert Fluharty
 Jackson River Oil Company
 Post Office Box 878
 Spencer, West Virginia 25276

4. Article Number
 37

Type of Service:
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature - Addressee
 X

6. Signature - Agent
 X *Mary Weaver*

7. Date of Delivery
June 16 1992

8. Addressee's Address (ONLY if requested and fee paid)

PS Form 3811, Apr. 1989 *U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

API WELL NO. 087-1926
OPERATOR'S WELL NO. HARPER 1
UIC PERMIT NO. UIC2D0871926

UNDERGROUND INJECTION CONTROL PERMITS
FOR BOTH
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
AND
DIVISION OF NATURAL RESOURCES, SECTION OF WATER RESOURCES
FOR
CLASS II INJECTION WELLS
BRINE DISPOSAL

This document consists of the Underground Injection Control Permit required by the Division of Environmental Protection, Office of Oil and Gas, and the Division of Natural Resources, Section of Water Resources.

The Underground Injection Control Permit No. UIC2D0871926 consists of the terms of Form WW-3 (see attachment A) and of the following terms and conditions:

1. The requirements of Section 13.06, and 13.12, Series IX of the West Virginia Administrative Regulations of the State Water Resources Board are hereby incorporated by reference as terms and conditions.
2. All reports required by this permit shall be submitted to the Office of Oil and Gas with the exception stated in paragraph 3 below. The frequency of reporting shall be that required by the Chief of the Office of Oil and Gas.
3. The following shall be reported immediately to the Chief of the Section of Water Resources in accordance with Section 13.06(d) and Section 13.12(1)(6), Series IX, of the West Virginia Administrative Regulations of the State Water Resources Board.
 - (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water;

- (b) Any non-compliance with a permit condition or any malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water; and
 - (c) Any non-compliance which may endanger health or environment.
4. Monitoring results shall be reported (under Section 13.12(1)(4), Series IX of the West Virginia Administrative Regulations of the State Water Resources Board) on a monthly basis. These reports shall be submitted to the Office of Oil and Gas, Division of Environmental Protection, on the appropriate forms (22B-1-14, Regulation 38 CSR 18-7.5).
 5. This permit is for authorization of injection of only fluids as defined for Class II wells in Series IX regulations Section 4.02 of Chapter 20-5A. Fluids shall be consistent with the analysis of injected fluids submitted with the permit application and shall only be from those sources listed in the permit application.
 6. Authorization to inject is contingent upon submission and approval of the Office of Oil and Gas Form WR-37 for each well. Construction modifications from the proposed work plan (O&G Form WW-3) and mechanical integrity will be evaluated at this time. Operational conditions will be finalized at this time. Upon approval of Form WR-37, conditions established on this form are incorporated by reference as conditions of this permit. FORM WR-37 SHALL BE SUBMITTED WITHIN 30 DAYS OF THE EFFECTIVE DATE OF THE UIC PERMIT.
 7. A well head pressure gauge shall be installed and maintained on the injection tubing to facilitate inspection and ensure compliance of maximum injection pressures as approved on Oil and Gas Form WR-37. A daily reading of the injection pressure shall be taken and reported on Form WR-40.
 8. The permittee shall monitor the 2 3/8" X 7" and 7" X 9 5/8" casing annuli with pressure sensitive devices or with such a method as approved or required by the Office of Oil and Gas to allow early detection of any leaks from the injection zone or casing. The results of such monitoring shall be reported monthly on Form WR-40.

9. The area of review is designated as a fixed one-quarter mile radius around the injection project.
10. The maximum allowable injection pressure is 900 psi.
11. The applicant must satisfy the requirement of the Office of Oil and Gas regarding any corrective action needed on all known wells penetrating the injection zone within the area of review. This must be done in a manner which satisfies the requirements of Section 13.07(b), Series IX, of the West Virginia Administrative Regulations of the State Water Resources Board.
12. The permittee must satisfy the requirement of the Office of Oil and Gas for plugging and abandonment of permitted injection wells in such a manner as to ensure that no fluid movement occurs either from the injection zone into an underground source of drinking water or from one underground source of drinking water to another (as required by Section 13.07(f) of the West Virginia Administrative Regulations of the State Water Resources Board, Series IX.)
13. The permittee shall fulfill the requirements of the Office of Oil and Gas regarding maintaining financial responsibility and resources to close, plug, and abandon permitted wells.
14. The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit; with the information submitted with the Permit Application No. UIC2D0871926; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the State Water Resources Board.
15. Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with the Permit Application No. UIC2D0871926 and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and for the invocation of all the enforcement procedures set forth in Article 5A, Chapter 20, of the Code of West Virginia.

16. This permit is issued in accordance with the provisions of Article 5A, Chapter 20, of the Code of West Virginia and is transferable under the terms of Section 7 of said article.
17. The operation of this injection well facility in general, including maintenance of all related surface equipment, shall be conducted so as to preclude any unlawful discharge of waste materials into the surface or ground waters of this State.

Date: _____

10 June 92

Chief
Section of Water Resources

Lanley E. King

Date: _____

June 10, 1992

UIC Program Director
Office of Oil and Gas

Michael W. Lewis

ATTACHMENT A



1) Date: 02-19, 1992
 2) Operator's Well No. Harper #1
 3) SIC Code _____
 4) API Well NO. 47 - 087 - 1926
 State County Permit
 5) UIC Permit No. 2D0871926

STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 for the
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

Renewal
RECEIVED
 Office of Oil & Gas
 UIC Section
 FEB 25 92
 WV Division of
 Environmental Protection

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
 7) LOCATION: Elevation: 778 Watershed: Pocatalico
 District: Harper County: Roan Quadrangle: Walton
 8) WELL OPERATOR Jackson River Oil Co. 9) DESIGNATED AGENT Robert E. Fluharty
 Address 2813 Charleston Road Address Same
Spencer, WV 25276
 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Homer Dougherty
 Address Box 3A Linder Rt.
Looneyville WV 25259
 11) DRILLING CONTRACTOR:
 Name Unknown
 Address _____
 12) PROPOSED WELL WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____ / Convert _____
 Other physical change in well (specify) _____
 13) GEOLOGICAL TARGET FORMATION, Squaw, Wier, Berea Depth 1980' feet(top) to 2400' feet(bottom)
 14) Estimated depth of completed well, (or actual depth of existing well) 2400 ft.
 15) Approximate water strata depths: Fresh, 200 feet; salt, _____ feet.
 16) Approximate coal seam depths: _____
 17) Is coal being mined in the area? Yes _____ / No
 18) Virgin reservoir pressure in target formation 2000 psig. Source _____
 19) Estimated reservoir fracture pressure 2400 psig (BHFP)
 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 10 bbl/per hr Bottom hole pressure 1843
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: _____
 22) FILTERS (IF ANY): _____
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

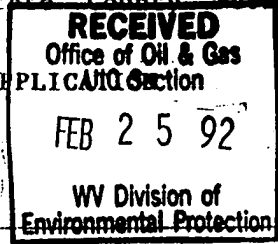
24) CASING AND TUBING PROGRAM

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									Tension
Coal									Sizes
Intermediate									4 1/2" x 2 3/8"
Production									Depths set
Tubing	2 3/8"		#4			2000'	2000'		1980
Liners									Perforations: <u>Open Hole</u> Top <u>1980'</u> Bottom <u>2400'</u>

25) APPLICANT'S OPERATING RIGHTS were acquired from _____
 by deed _____ / lease _____ / other contract _____ / dated _____, 19____, of record in the
 County Clerk's office in _____ Book _____ at page _____

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

1) Date 02/19/92
Operator's _____
2) Well No. Harper #1
3) SIC Code _____
4) API Well No. 47 -087 -1926
State _____ County _____ Permit _____



STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- | | |
|---|---|
| 6) SURFACE OWNER(S) OF RECORD TO BE SERVED | 7 (I) COAL OPERATOR |
| (i) Name <u>Mr. & Mrs. Harry R. Lynch</u>
Address <u>901 Lauden Heights Road</u>
<u>Charleston WV 25314</u> | Address _____ |
| (ii) Name _____
Address _____ | 7 (II) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____ |
| (iii) Name _____
Address _____ | 7 (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 Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-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 date proposed for the first injection or waste disposal is March 01, 1992.

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 WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B 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 Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-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 Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Jackson River Oil Company Inc.
Well Operator
By Robert E. Trakanty
Its Vice-President
Telephone (304) 927-2601



Well Location Map
UIC Permit No. UIC2D0871926