



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
PETHTEL # 2

MAR 25 1981

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

Surface Owner Hiram Wherry  
Address \_\_\_\_\_  
Mineral Owner Zedock Pethel, et ux  
Address \_\_\_\_\_  
Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Operator N/A  
Address \_\_\_\_\_

DATE 3/23/81  
Company LAUDERMAN OIL & GAS  
Address P. O. Box 266, Paden City, WV  
Farm \_\_\_\_\_ Acres 22.38  
Location (waters) Wolf Run  
Well No. #2 Elevation 821  
District Union County Pleasant  
Quadrangle Raven Rock, WV 7 1/2 Quad

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 12-1-81.

*[Signature]*  
Deputy Director - Oil & Gas Division

INSPECTOR  
TO BE NOTIFIED Phillip Tracy  
ADDRESS RD #3, Alma, WV  
PHONE \_\_\_\_\_

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated \_\_\_\_\_ 19\_\_\_\_ by \_\_\_\_\_ made to \_\_\_\_\_ and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in \_\_\_\_\_ County, Book \_\_\_\_\_ Page \_\_\_\_\_

XXXXXXX NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,  
(Sign Name) *[Signature]*  
Well Operator

OFFICE OF OIL AND GAS  
1615 Washington Street, East  
Charleston, West Virginia  
Area Code 304 -348-3092 348-3096

Address of Well Operator  
311 South Fourth Avenue Street  
Paden City City or Town  
West Virginia 26159 State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-073-1150

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

**THIS IS AN ESTIMATE ONLY**  
**ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO XXXXXXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME LAUDERMAN OIL & GAS DRILLING NAME PHILLIP MORGAN  
 ADDRESS P. O. Box 266, Paden City, WV ADDRESS SAME  
 TELEPHONE (304) 337-2215 TELEPHONE \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 4700 ROTARY XXXXXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. XXXXXX STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	250' with fluid rotary cemented bottom to surface		
7	921' of 8 / 5 with air rotary cemented bottom to surface		
5 1/2			
4 1/2	10.50# cemented from T.D. to 1300 feet from surface		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 120 FEET \_\_\_\_\_ SALT WATER 1700 FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS N/A  
 IS COAL BEING MINED IN THE AREA? N/A BY WHOM? \_\_\_\_\_  
 No salt water anticipated this area

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS

Company Name Lauderman O+G Designated Agent Phillip Morgan  
Address Box 266, Paden City, W.V. 26159 Address Box 266, Paden City, W.V. 26159  
Telephone 337-2215 Telephone 337-2215  
Landowner Hiram Wherry Soil Cons. District Upper Ohio  
Revegetation to be carried out by Jim Renner (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections  
and additions become a part of this plan. 3/25/81 Kenneth L. Mason  
(Date) (SCD Agent)

Access Road	Location
Structure _____ (A)	Structure <u>Diversion Ditch</u> (1)
Spacing _____	Material <u>Soil</u>
Page Ref. Manual _____	Page Ref. Manual <u>1:9</u>
Structure _____ (B)	Structure <u>Rip-Rap</u> (2)
Spacing _____	Material <u>Rock-Stone-Brush</u>
Page Ref. Manual _____	Page Ref. Manual <u>N/A</u>
Structure _____ (C)	Structure _____
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

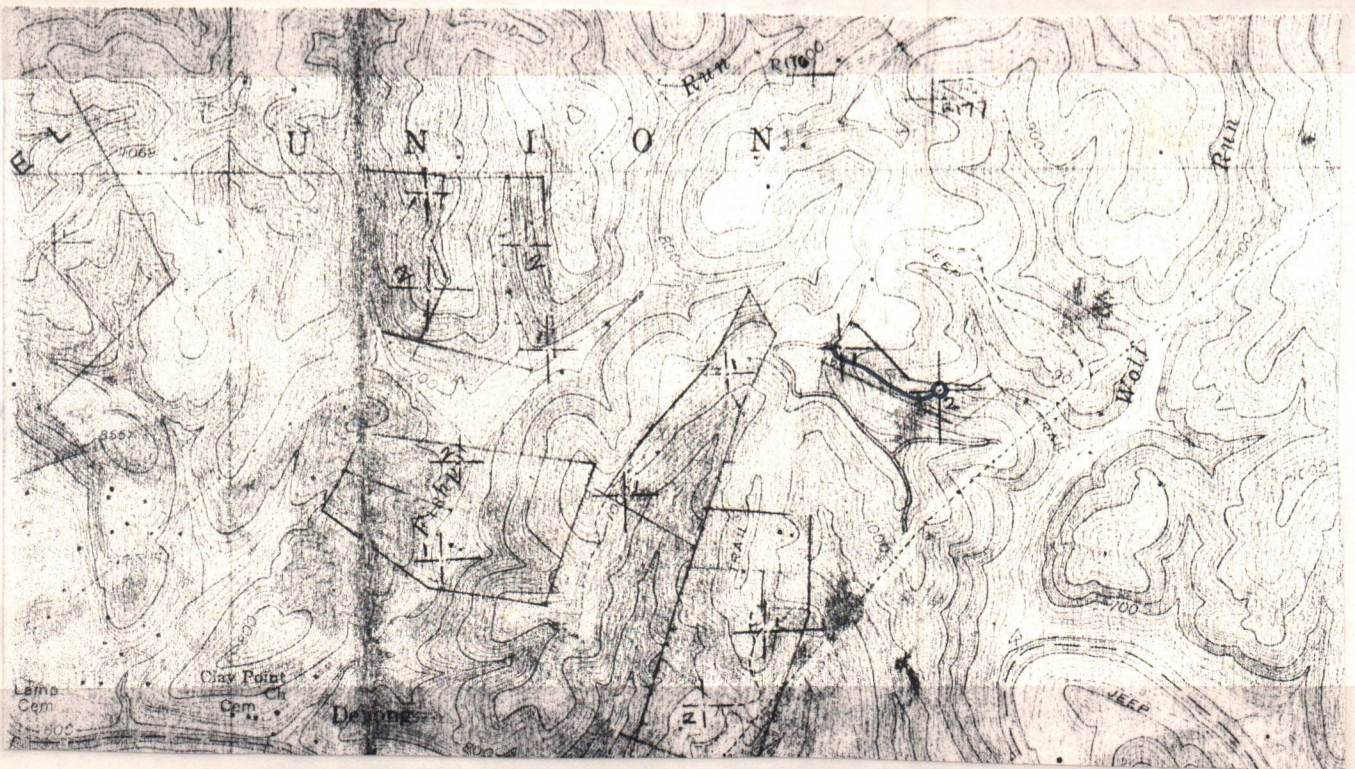
RECEIVED

All structures should be inspected regularly and repaired if necessary. MAR 25 1981

Revegetation		OIL & GAS DIVISION	
Treatment Area I		Treatment Area II	DEPT. OF MINES
Lime _____ Tons/acre	Lime _____ Tons/Acre	Lime _____ Tons/Acre	
or correct to pH <u>6.5</u>	or correct to pH <u>6.5</u>	or correct to pH <u>6.5</u>	
Fertilizer <u>500</u> lbs/acre	Fertilizer <u>500</u> lbs/acre	Fertilizer <u>500</u> lbs/acre	
(10-20-20 or equivalent)	(10-20-20 or equivalent)	(10-20-20 or equivalent)	
Mulch <u>Hay</u> <u>2</u> Tons/Acre	Mulch <u>Hay</u> <u>2</u> Tons/Acre	Mulch <u>Hay</u> <u>2</u> Tons/Acre	
Seed* <u>KY31 Fescue</u> <u>35</u> lbs/acre	Seed* <u>KY31 Fescue</u> <u>35</u> lbs/acre	Seed* <u>KY31 Fescue</u> <u>35</u> lbs/acre	
<u>Redtop</u> <u>5</u> lbs/acre	<u>Redtop</u> <u>5</u> lbs/acre	<u>Redtop</u> <u>5</u> lbs/acre	


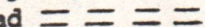
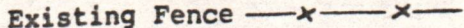
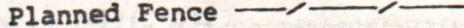


\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

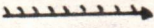




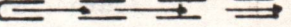
Attach or photocopy section of involved Topographic map. Quadrangle Raven Rock, W.Va.



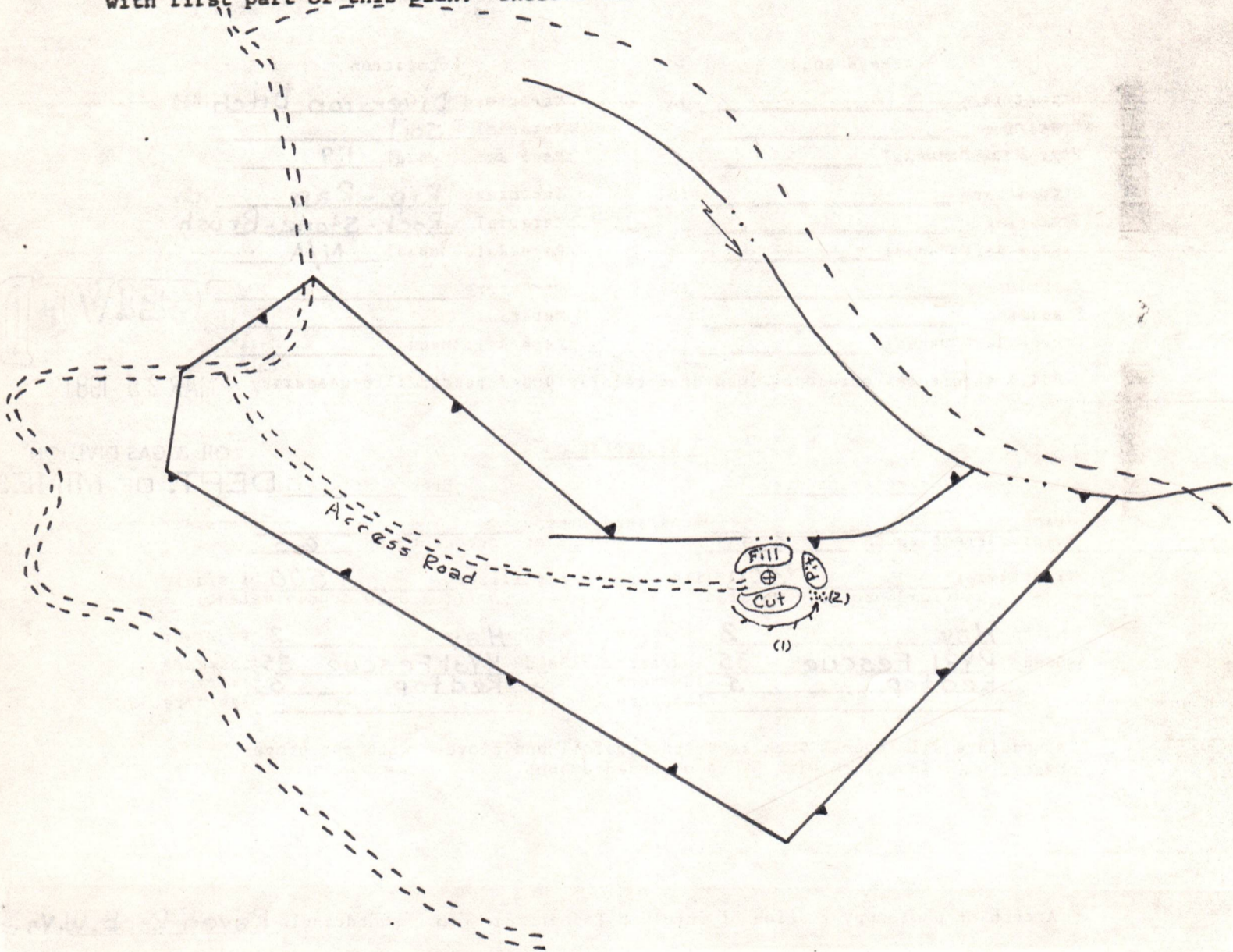
Well Site Plan

Legend:

- Property Boundry 
- Road 
- Existing Fence 
- Planned Fence 
- Stream 
- Open Ditch 

- Diversion 
- Spring 
- Wet Spot 
- Building 
- Drain Pipe 
- Waterway 

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



Comments: (1) Average Slope of Access Road 10%  
 (2) Brush and Trees to be Piled at Site

Signature: Shelly Morgan PO Box 266, Paducah, KY 40301  
 Agent Address Phone Number

Please request landowners cooperation to protect new seeding for one growing season.

AGREEMENT, made and entered into the 15th day of January 1901 by and between CHARLES E. O'DELL and AGNES L. O'DELL, husband and wife

County of Wood and state of West Virginia parties of Parkersburg P. O. hereinafter called Lessors, whether one or more, and LAUDERMAN OIL & GAS COMPANY party of the second part, hereinafter called Lessee.

WITNESSETH, that the said Lessors for and in consideration of the sum of two hundred and 00/100 (\$200.00) Dollars to them in hand well and truly paid by said Lessee, the receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter contained on the part of the said Lessee, to be paid, kept and performed, have granted, demised, leased and let and by these presents do grant, demise, lease and let with covenants of quiet possession, and that they have the sole right so to grant and demise, unto the said Lessee, its successors and assigns, for the purpose of mining and operating for oil and gas, and of building tanks, stations, power plants, water stations and structures thereon to take care of the said products, and of laying pipe lines on, over and across the leased premises and other lands of Lessors, for the purpose of conveying oil, gas, steam or water therein from and to wells and pipe lines on the premises and on adjoining and adjacent farms, and rights of way for road ways over this and other land of Lessors,

All that certain tract of land situate in Union District Pleasants County and State of West Virginia on the waters of Middle Island Creek

bounded as follows: On the North by lands of J. Gardner On the East by lands of George Riggs On the South by lands of Porter Heirs On the West by lands of McFadden & Rogers

Containing twenty-two and three eighths acres (22-3/8) acres, more or less, being land purchased from Ernestinia P. Sauer, widow by deed dated 10/12/80 recorded Deed Book 159 page 116 reserving, however, therefrom all lands within two hundred feet of the resident buildings now on the premises on which no well shall be drilled by either party except by mutual consent.

It is agreed that this lease shall remain in force for the term of six months either of them, is produced from the said lands by the said Lessee, its successors and assigns.

In Consideration of the Premises the said party of the second part, covenants and agrees: 1st—to deliver to the credit of the Lessors, their heirs or assigns, free of cost, in the pipe line to which Lessee may connect its wells, a 1/16 override payable to O. D. & L. Oil & Gas plus the equal one-eighth (1/8) part of all oil produced and saved from the leased premises; and second, to pay

one-eighth (1/8) of the value at the well of the gas from each and every gas well drilled on said premises, the product from which is marketed and used off the premises, said gas to be measured at a meter set on the farm.

The Lessee shall not be required in any event to increase the rate of said gas well payments or said royalty of oil by reason of any royalty or interest in said oil or gas that may have been heretofore sold, reserved or conveyed by Lessors or their predecessor in title or otherwise. And any such outstanding royalty or interest shall first be deducted from the royalties and rentals above provided to be paid or delivered.

It is agreed by the parties hereto that the Lessee, its successors or assigns, shall have the right to use off the farm for such purposes as it may desire, "Casing Head Gas," (being gas produced from wells on the premises), but if said "casing head gas" or any part thereof should be manufactured into gasoline or other by-products by said company, said Lessors shall receive a 1/16 override payable to plus one-eighth of the net value at the factory of the gasoline and other by-products so manufactured. O. D. & L. Oil & Gas

Lessor may lay a line to any well producing gas only on said land or to second party's pipe line leading from said well to market, to take gas produced from said well for own use for heat and light in one dwelling house on said land at Lessor's own risk, subject to the use, operation, pumping and right of abandonment of the well and pipe line by the Lessee; the first two hundred thousand cubic feet of gas so taken in each year shall be free, but all gas in excess of two hundred thousand cubic feet taken in each year shall be paid for by the Lessor at the current published local rates of the Lessee, and measurement and regulation shall be by meter and regulators set at the tap on the well or line. This privilege is upon condition that the Lessor shall use said gas with economy, in safe and proper pipes and appliances, and shall subscribe to and be bound by reasonable rules and regulations of the Lessee published at such time relating to such use of gas.

Lessee covenants and agrees to locate all wells so as to interfere as little as possible with the cultivated portion of the farm. And it is agreed that the leased premises may be fully and freely used by the Lessors for farming purposes, excepting such parts as are used by the Lessee in operating hereunder, and, further, that the said Lessee may drill or not drill on said land, as it may elect, and that the consideration and rentals paid and to be paid constitute adequate compensation for such privilege.

The said Lessee covenant and agrees to pay rental at the rate of Five dollars per acre semi-annually (\$ 5.00 ) Dollars, XXXXX in advance, beginning in January, 1981

months from this date, until, but not after, a well yielding royalty to the Lessors in drilled on the leased premises, and any rental paid for time beyond the date of completion of a gas well shall be credited upon the first royalty due upon the same and all rentals shall cease after the surrender of this lease as hereinafter provided for. All payments for delay, for gas produced and marketed, for gasoline and other by-products may be made direct to the lessors or be deposited to their credit, or to the credit of their heirs or assigns in the

Bank of or by check mailed to P. O. County at State of ; such payments may be also made in the same manner to

who is hereby appointed agent for the lessors to receive the same. DEPT. OF MINES

It is agreed that the Lessee is to have the privilege of using free, sufficient water and gas from the said premises to run all machinery necessary for drilling and operating thereon at any time to remove all machinery and fixtures placed on said premises; and further, upon the payment of one (\$1.00) Dollar at any time, by the party of the second part, or by its successors and assigns it or they shall have the right to surrender this lease for cancellation, after which all payments and liabilities thereafter to accrue under and by virtue of its terms shall cease and determine, and this lease becomes absolutely null and void.

Lessors agree that the recordation of a deed of surrender in the proper county, and the mailing in the postoffice of a check, payable as above provided, for said last mentioned sum and all amounts then due hereunder, shall be a full surrender and termination of this lease. All provisions of this lease shall be binding upon the heirs, executors, administrators, successors and assigns of the parties hereto.

In Witness Whereof, the parties of this agreement have hereunto set their hands and seals the day and year first above written. Witness: Charles E. O'Dell (Seal) Agnes L. O'Dell (Seal)

State of West Virginia County of Wood to-wit:  
I, Richard M. Richmond  
Notary Public of said County of Wood do certify that  
Charles E. O'Dell and Agnes L. O'Dell

his wife, whose names are \_\_\_\_\_ signed to the writing above bearing date the 15th day of  
January A. D. 19 81 have this day acknowledged the same before me  
in my said county.

Given under my hand this 15th day of January A. D. 19 \_\_\_\_\_

This instrument prepared by: Richard M. Richmond  
Richard M. Richmond, Attorney at Law Notary Public Wood County, West Virginia  
P. O. Box 1733 My Commission expires March 14, 1989  
Parkersburg, WV 26101  
State of \_\_\_\_\_ County of \_\_\_\_\_ to-wit: ;

I, \_\_\_\_\_ of said County of \_\_\_\_\_ do certify that  
and \_\_\_\_\_

his wife, whose name \_\_\_\_\_ signed to the writing above bearing date the \_\_\_\_\_ day of  
A. D. 19 \_\_\_\_\_ has this day acknowledged the same before me  
in my said county.

Given under my hand this \_\_\_\_\_ day of \_\_\_\_\_ A. D. 19 \_\_\_\_\_

Notary Public \_\_\_\_\_ County, \_\_\_\_\_  
My Commission expires \_\_\_\_\_

State of \_\_\_\_\_ County of \_\_\_\_\_ to-wit:  
I, \_\_\_\_\_ of said County of \_\_\_\_\_ do certify that  
and \_\_\_\_\_

his wife, whose name \_\_\_\_\_ signed to the writing above bearing date the \_\_\_\_\_ day of  
A. D. 19 \_\_\_\_\_ has this day acknowledged the same before me  
in my said county.

Given under my hand this \_\_\_\_\_ day of \_\_\_\_\_ A. D. 19 \_\_\_\_\_

Notary Public \_\_\_\_\_ County, \_\_\_\_\_  
My Commission expires \_\_\_\_\_

For and in consideration of the sum of One Dollar, cash in hand paid, receipt of which is hereby acknowledged,  
hereby assigned, transfer, set over and convey all \_\_\_\_\_ right, title to and interest in the within described oil and gas  
lease to \_\_\_\_\_ to have and to hold according to all the terms contained therein.

(SEAL)

(SEAL)

Taken, subscribed and sworn to before me  
a Notary Public of \_\_\_\_\_ County \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ A. D. 19 \_\_\_\_\_

My commission expires \_\_\_\_\_ Notary Public \_\_\_\_\_

Globe Form 25 Rev.

OIL AND GAS LEASE

FROM

CHARLES E. O'DELL

and

AGNES L. O'DELL

TO

LAUDERMAN OIL & GAS CO.

Date January 15 1981

Term Twenty-Six Months

Number of Acres 22.9/8

LOCATION

District Union

County Pleasants

Recorded for Record \_\_\_\_\_

Recorded \_\_\_\_\_

In Book \_\_\_\_\_ Page \_\_\_\_\_



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Raven Rock

Permit No. 47-073-1150

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb.   
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Company B.K.K. Prospecting, LTD.  
Address 45 North Road, Niles, Ohio 44446  
Farm Hiram Wherry Acres 22.38  
Location (waters) Wolf Run  
Well No. 2 Elev. 821'  
District Union County Pleasants  
The surface of tract is owned in fee by \_\_\_\_\_  
Hiram Wherry  
Address St. Marys, WV  
Mineral rights are owned by Zedock Pethel  
Address Rt 3 New Matamoras, Ohio  
Drilling Commenced 5/3/81  
Drilling Completed 5/9/81  
Initial open flow 0 cu. ft. 0 bbls.  
Final production Testing cu. ft. per day Testing bbls.  
Well open 2 hrs. before test 1150 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	712	712	to surface
7			
5 1/2			
4 1/2	4508	4508	490 sks cement
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforated 4061 - 4434 19 shots 3 1/2 Baffle 4010 treated with 500 Gal Formic Acid  
Fractured with 45,000# Sand with 200 BBLs water and 631,000 SCF Nitrogen

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water 90 Feet 120 Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Devonian Shale Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale	Gray	Hard	0	712		
Sand	Gray	Soft	712	734		
Shale	Gray	"	734	763		
Sand	Gray	"	763	855		
Shale	Gray	"	855	934		
Sand	Brown	Soft	934	980		
Shale	Gray	Hard	980	1010		
Sandstone	Gray	"	1010	1053		
Shale	Gray	"	1053	1136		
Sand	Gray	"	1136	1187		
Shale	Gray	"	1187	1235		
Sand	Gray	Soft	1235	1290		
Shale	Gray	Hard	1290	1331		
Sand	Brown	"	1331	1379		
Shale		"	1379	1414		
Sand			1414	1490		
Shale	Gray	Hard	1490	1521		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Limestone	White	Hard	1521	1534		
Sand	Gray	"	1534	1714	Saltwater	Big Injun
Shale	Gray	"	1714	2490		
Sand	Gray	Soft	2490	2510	Gas & Oil	Gordon
Shale			2510	4525		Devonian Shale

Date \_\_\_\_\_ 19 \_\_\_\_\_

APPROVED \_\_\_\_\_ Owner

By \_\_\_\_\_



DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 73-1150

Oil or Gas Well \_\_\_\_\_  
KIND \_\_\_\_\_

Company <u>Lauderman Oil &amp; Gas</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>Paden City</u>	16			
Farm <u>Wherry</u>	13			
Well No. <u>2</u>	10			Size of _____
District _____ County <u>Pleasants</u>	8 1/4			Depth set _____
Drilling commenced _____	6 3/8			
Drilling completed _____ Total depth <u>960</u>	5 3/16			Perf top _____
Date shot _____ Depth of shot _____	3			Perf bottom _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf bottom _____
Volume _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Rock pressure _____ lbs. _____ hrs.	NAME OF SERVICE COMPANY _____			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Fresh water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

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

Remarks: Trying to get 8 5/8 down hole would not go

**RECEIVED**  
MAY 12 1981

OIL & GAS DIVISION  
DEPT. OF MINES

*Phil Tracy* 512  
DISTRICT WELL INSPECTOR

5-6-81  
DATE

STATE OF MICHIGAN  
**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				CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION	LOCATION	RECOVERED	SIZE	LOST

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

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

DATE \_\_\_\_\_ hereby certify I visited the \_\_\_\_\_ well on this date \_\_\_\_\_

DISTRICT WELL INSPECTOR



**RECEIVED**  
JUN 18 1985

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

**State of West Virginia**  
**Department of Mines**  
**Oil and Gas Division**  
**Charleston 25305**

FINAL INSPECTION REPORT  
INSPECTORS COMPLIANCE REPORT  
August 30, 1984

COMPANY BKK Prospecting, LTD  
45 North Road  
Niles, Ohio 44446

PERMIT NO 073-1150 (4-01-81)  
FARM & WELL NO Hiram Wherry #2  
DIST. & COUNTY Union/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing	✓	
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing	✓	
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R.A. Lowther  
DATE June 13, 1985

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.L. ...  
Administrator-Oil & Gas Division

June 25, 1985  
DATE

RECEIVED  
AUG 25 1981

FERC-121

OIL & GAS DIVISION  
DEPT. OF MINE

1.0 API well number: (If not available, leave blank. 14 digits.)	Permit No. 47-073- 1150			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		N/A Category Code	
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	4525 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	B.K.K. Prospecting, LTD			
	Name 45 North Road			Seller Code
	Street Niles,		Ohio	44446
	City		State	Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Hiram Wherry # 2			
	Field Name Pleasants		West Virginia	
(b) For OCS wells:	N/A		N/A	
	Area Name		Block Number	
	Date of Lease: Mo. Day Yr.		N/A OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	Hiram Wherry # 2			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	N/A			
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp.			004030
	Name			Buyer Code
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated annual production:	54.75 MMcf.			
	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	---	---	---	---
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	4 920	---	---	---
9.0 Person responsible for this application:	John Graham			Designated Agent
	Name			Title
	Signature <i>John Graham</i>			
	Date Application is Completed 7/30/81		Phone Number 684-2449	
Agency Use Only				
Date Received by Juris. Agency				
AUG 25 1981				
Date Received by FERC				

PARTICIPANTS:

DATE: NOV 20 1981

BUYER-SELLER CODE

WELL OPERATOR: B. K. K. Prospecting, LTD

FIRST PURCHASER: Columbia Gas Trans.

004030

OTHER: \_\_\_\_\_

0.5%

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
81-08-25-107-073-1150  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

*Qualifies J. H. Huzzey*

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121  Items not completed - Line No. All 7.0, 8.0 bed
- 2. IV-1 Agent  John Graham
- 3. IV-2 Well Permit \_\_\_\_\_
- 4. IV-6 Well Plat
- 5. IV-35 Well Record  Drilling  Deepening \_\_\_\_\_
- 6. IV-36 Gas-Oil Test: Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_
- 7. IV-39 Annual Production \_\_\_\_\_ years
- 8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_
- 9. IV-48 Application for certification. Complete?
- 10-17. IV Form 51 - 52 - 53 - 54 - (55) - 56 - 57 - 58 Complete?  Affidavit Signed
- 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
- (5) Date commenced: 5-3-81 Date completed 5-9-81 Deepened \_\_\_\_\_
- (5) Production Depth: 4061-4434
- (5) Production Formation: Devonian Shale
- (5) Final Open Flow: Testing
- (5) After Frac. R. P. 1150 # 2 hrs.
- (6) Other Gas Test: \_\_\_\_\_
- (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
- (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
- (8) Line Pressure: \_\_\_\_\_ PSIG from Daily Report
- (5) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_
- 10-17. Does lease inventory indicate enhanced recovery being done No
- 10-17. Is affidavit signed?  Notarized?
- Does official well record with the Department confirm the submitted information? yes
- Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
- Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

WELL CLASSIFICATION FORM  
HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

John Graham

DESIGNATED AGENT

ADDRESS

209 Second Street

St. Marys, WV 26170

WELL OPERATOR B.K.K. Prospecting, LTD

ADDRESS 45 North Road

Niles, Ohio 44446

GAS PURCHASER Columbia Gas

ADDRESS 1700 McCorkle Ave. S.E

Charleston, WV 25314

LOCATION: Elevation 821'

Watershed Wolf Run

Dist. Union County Pleasants Quad Raven

Gas Purchase Contract No.

Meter Chart Code

Date of Contract

\* \* \* \* \*

Date surface drilling began: May 3, 1981

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$BHP + p_1 + P_1 (e^{GL/53.34T} - 1)$$

P<sub>1</sub> = 1164 PSIA BHP = 1288 PSIA

T = 114 °F

g = 0.70  
4434ft.

AFFIDAVIT

I, Edward J Kleese, having been first sworn according to law, state that, I have calculated the percentage of footage of the producing interval which is not Devonian shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described subparagraph (3)(1) or (3)(1)(A) has been filed, or as indicated by the report described in subparagraph (3)(1)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

*Edward J Kleese*

STATE OF WEST VIRGINIA.

COUNTY OF Pleasants, TO WIT:

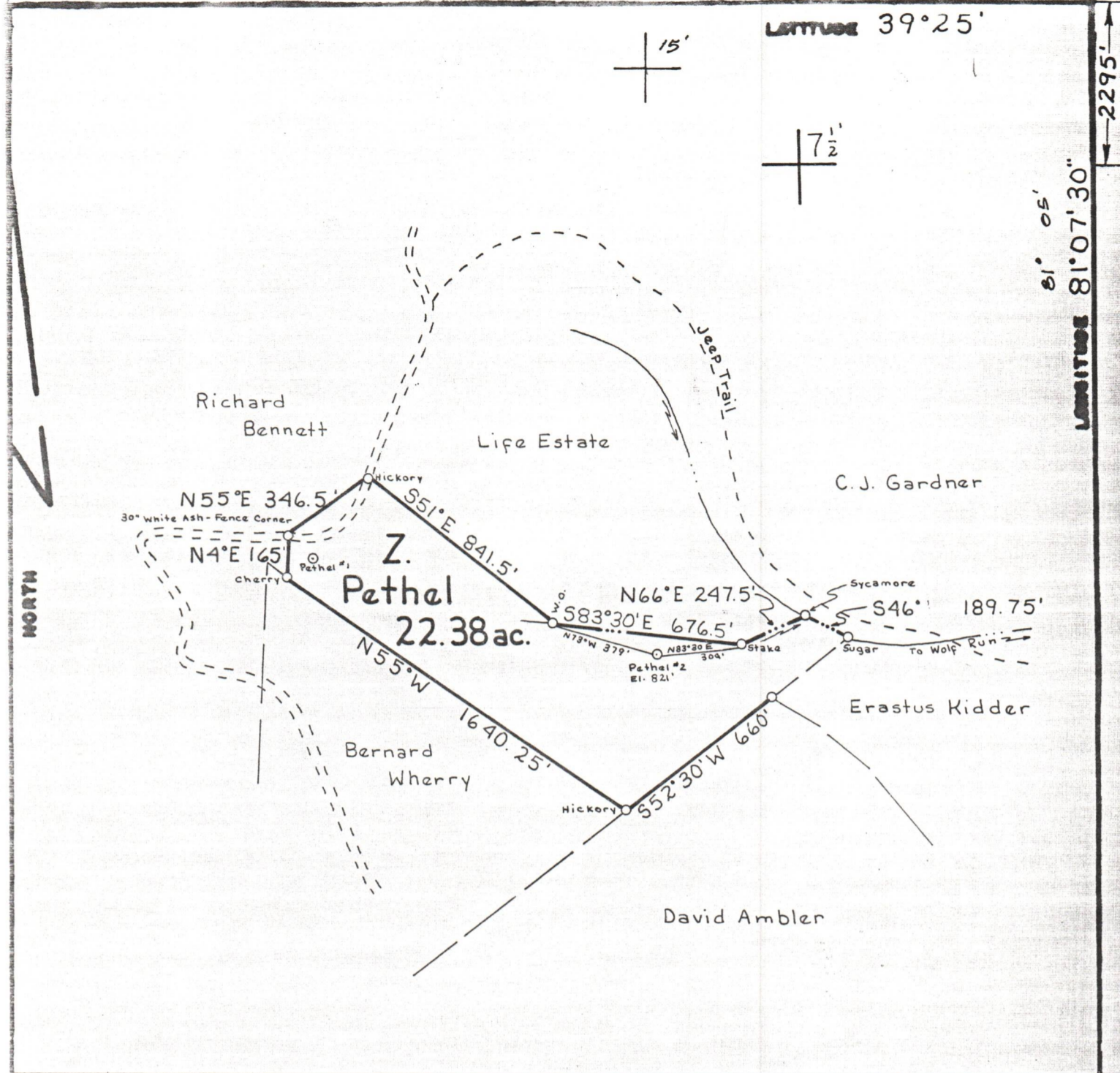
I, Sara Lou Shingleton, a Notary Public in and for the state and county aforesaid do certify that Edward J Kleese, whose name is signed to the writing above, bearing date the 30th day of July, 1981, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 30th day of July, 1981

My term of office expires on the 9th day of November, 1983

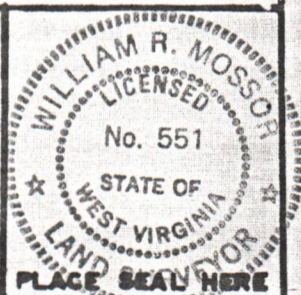
*Sara Lou Shingleton*  
Notary Public

[NOTARIAL SEAL]



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION High Point 1165'

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) *William R. Mossor*  
 R.P.E. \_\_\_\_\_ L.L.S. 551



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



DATE 20 March, 19 81  
 OPERATOR'S WELL NO Pethel #2  
 API WELL NO. 47-073-1150  
 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 821' WATER SHED Wolf Run  
 DISTRICT Union COUNTY Pleasants  
 QUADRANGLE Raven Rock, W. Va. 7 1/2' Quad.  
 SURFACE OWNER Hiram Wherry ACREAGE 22.38  
 OIL & GAS ROYALTY OWNER Zedock Pethel LEASE ACREAGE 22.38  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUS AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Shale ESTIMATED DEPTH 4000'  
 WELL OPERATOR Lauderman O+G DESIGNATED AGENT Phillip Morgan  
 ADDRESS Box 266 ADDRESS Box 266  
Paden City, W. Va. 26159 Paden City, W. Va. 26159