

NORTH

LATITUDE 39° 10' 00"

LONGITUDE 80° 45' 00"

Jamie
8/19/91

LEEMAN MAXWELL HRS.

120 AC

SAMUAL J. FLEECE ET AL

MARILYN J. HERRINGTON

TERRY E. LEESON

BRANCH

OF

BEAR

FORK

47-017-1334

15' loc calc
2.275
1.98w

7 1/2' loc
2.275
1.98w

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION WELL 47-017-2386
990'

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 ENERGY.
(SIGNED) *David L. Mitchell*
R.P.E. _____ L.L.S. 873

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE 5/9/91, 19____
OPERATOR'S WELL NO. 4599
API WELL NO. 47-017-2044-P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1162' WATER SHED BEAR FORK
DISTRICT COVE COUNTY DODDRIDGE
QUADRANGLE OXFORD/HOLBROOK-NE 54 43-4 EC

SURFACE OWNER HOWARD HERRINGTON ACREAGE 119.9
OIL & GAS ROYALTY OWNER LEEMAN MAXWELL HRS. LEASE ACREAGE 120
LEASE NO. 14066

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 GORDON ESTIMATED DEPTH 2700' (T.D.)

WELL OPERATOR EQUITRANS, INC. DESIGNATED AGENT BILL HOSTUTLER
ADDRESS 3500 PARK LANE ADDRESS P. O. BOX 1550

PITTSBURGH, PA. 15275

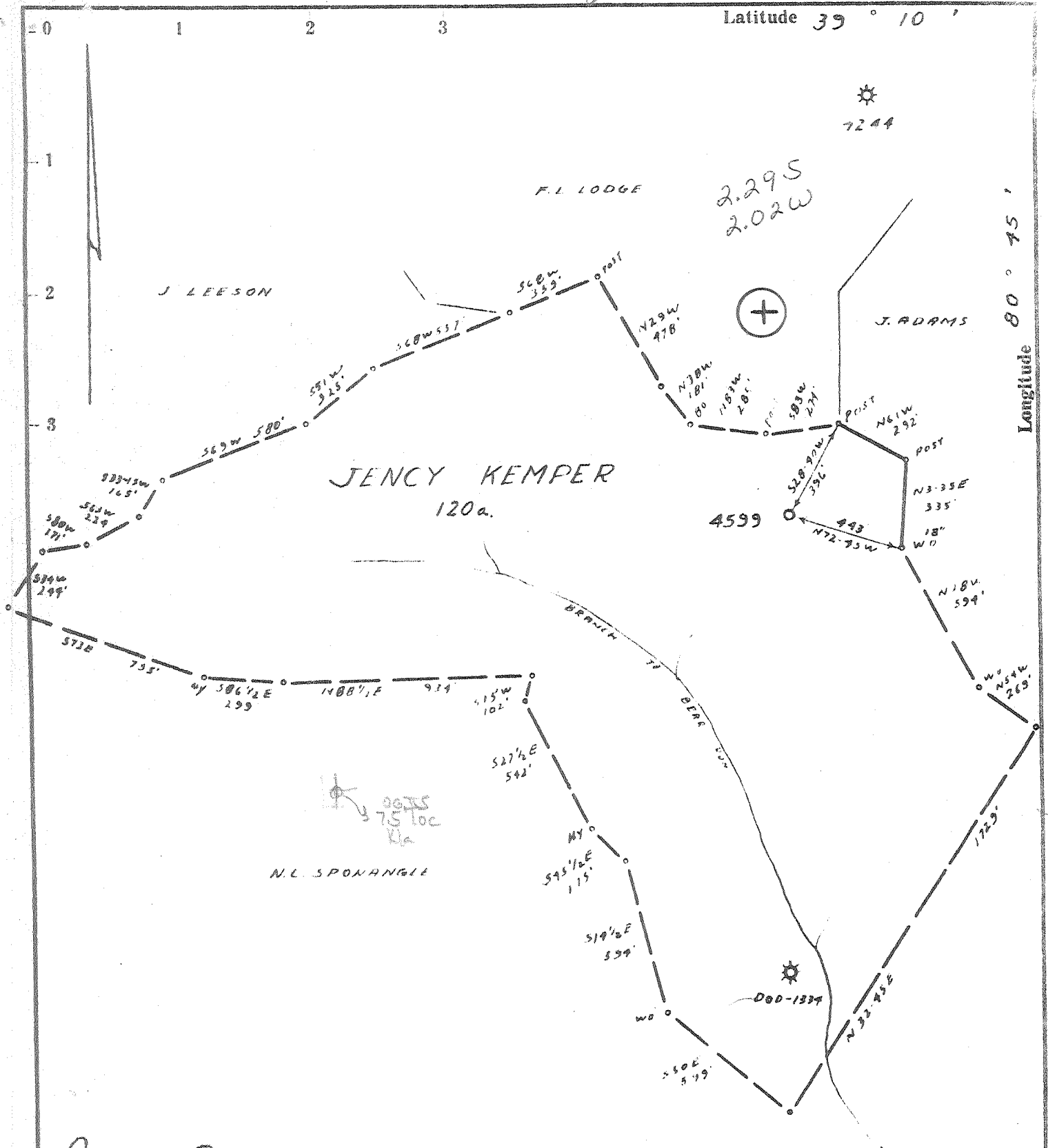
CLARKSBURG, WV 26301

AUG 26 1991

COUNTY NAME PERMIT

Latitude 39° 10'

Longitude 80° 45'



Partial Plugging issued: 2/4/74

- Fracture... 2/4/74
- Redrill...
- New Location...
- Drill Deeper...
- Abandonment...

Source of Elevation EQU. G. CO. WELL 4244 ELV. 990'
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200

Company	EQUITABLE GAS CO. W.VA. DIV.
Address	PITTSBURGH 19, PA.
Farm	JENCY KEMPER
Tract	Acres 120 Lease No. 14066
Well (Farm) No.	1 Serial No. 4599
Elevation (Spirit Level)	1162'
Quadrangle	HOLBROOK 42 EC of Dodd was
County	DODDRIDGE District COVE
Engineer	<i>James Jeffers</i>
Engineer's Registration No.	1084
File No.	211/90
Drawing No.	
Date	4-20-66
Scale	1" = 500'

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

WELL LOCATION MAP

FILE NO Dodd-1249-(A)-PP Trans:
 to Dodd-59-Frac new: Dodd-2044

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

47-017



RECEIVED

FEB 1 1974

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Holbrook NE 4.3-4

Permit No. 017-2044

Rotary _____ Oil _____
Cable XX Gas XX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Equitable Gas
Address Pittsburgh, Pa. 15219
Farm Jency Kemper Acres 120
Location (waters) Bear Run
Well No. 4599 Elev. 1162
District Cove County Doddridge
The surface of tract is owned in fee by _____
Emerson Arnold
Address Oxford, W. Va. 26414
Mineral rights are owned by Mayme K. Spurgeon
Address Auburn, W. Va. 26325
Drilling Commenced 11-1-17
Drilling Completed 12-6-17
Initial open flow 120 M cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open 18 hrs. before test 760# RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.			
18 -10"	277	277	
9 5/8			
8 5/8	1024	None	
7	1988	1988	
5 1/2			
4 1/2			
3			
2	2695	2695	
Liners Used			

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet Salt Water _____ Feet
Producing Sand Gordon Depth 2634-40

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Gamma & Neutron Log run			6-29-67	from surface to 2661		
Sand			94	144		
Sand			430	466		
Big Dunkard Sand			965	944		
Gas Sand			1112	1168		
Salt Sand			1350	1644		
Maxton Sand			1768	1816		
Little Lime			1917	1940		
Big Lime			1966	2010		
Big Injun			2014	2097	Gas	2070-92
Gordon Sand			2634	2640	Gas	2636-40
Total Depth				2700		

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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FEB 1 1974

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE Jan. 29, 1974

Surface Owner Emerson Arnold
Address Oxford, W. Va. 26414
Mineral Owner Mayme K. Spurgeon
Address Auburn, W. Va. 26325
Coal Owner No Coal
Address _____
Coal Operator _____
Address _____

Company Equitable Gas
Address Pittsburgh, Pa. 15219
Farm Jency Kemper ~~2.4~~ Acres 120
Location (waters) Bear Run Coveck/Leadingck
Well No. 6-4-4599 Elevation 1162
District Cove County Doddridge
Quadrangle Holbrook NE 4.3-4

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 fracturing. This permit shall expire if operations have not commenced by 6-4-74.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED

Mr. Paul Barnett
321 Beech St. PH: 622-3871
Clarksburg
W. Va. 26301

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 May 7 1913 by Jency Kemper made to Philadelphia Co. of W. Va. and recorded on the 1st day of Oct. 1913 in Doddridge County, Book 27 Page 248

NEW WELL DRILL DEEPER REDRILL XX 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:

West Virginia Geological and Economic Survey
P. O. Box 379
Morgantown, W. Va. 26505
AC 304-296-4461

Very truly yours, S. M. Linger

(Sign Name) Equitable Gas Co.

Well Operator

Address
of
Well Operator

420 Blvd. of the Allies

Street

Pittsburgh

City or Town

Pa. 15219

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

now Doddridge
was Dodd-59-Frac. 2044
47-017 PERMIT NUMBER

Transferred from Dodd-1249-A-PP

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

PROPOSED WORK ORDER TO: _____ DRILL _____ DEEPEN XX FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME H. E. Gardner, Div. Supt.
 ADDRESS _____ ADDRESS Box 1550, Clarksburg, W.Va.
 TELEPHONE _____ TELEPHONE (304)624-6576
 ESTIMATED DEPTH OF COMPLETED WELL: 2125 ROTARY _____ CABLE TOOLS XX
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS XX COMB. _____ 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			
7			
5 1/2			
4 1/2		Run 2,125'	Cem. to 1,900'
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS No Coal
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

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

FIRST PRESSURE TEST IN 6 5/8 CASING

REMARKS

30 Sec.	<u>9/10</u>	lbs.	
1 Min.	<u>7/10</u>	"	
2 "	<u>50/10</u>	"	<u>45/10</u>
5 "	<u>6</u>	"	
10 "	<u>19</u>	"	
15 "	<u>25</u>	"	
30 "	<u>45</u>	"	<u>52/70</u>
Rock Pressure	<u>75</u>	" in <u>1 1/2</u> Sec.	
Taken	<u>Dec 9</u>		<u>19 17</u>
By	<u>L. M. Gim</u>		

WELL TUBED AND PACKED Dec 9 19 17

VIZ:- Used 132 ft. 2 1/2" Pumping
1-6 5/8" 2" Rock Wall Packer
30 ft. 606 ft. of Anchor

FIRST PRESSURE TEST IN 2" TUBING

REMARKS

30 Sec.	<u>4</u>	lbs.	
1 Min.	<u>7</u>	"	
2 "	<u>12</u>	"	<u>16/20</u>
5 "	<u>24</u>	"	
10 "	<u>40</u>	"	
15 "	<u>55</u>	"	<u>74</u>
30 "	<u>110</u>	"	<u>210</u>
Rock Pressure	<u>760</u>	" in <u>18</u> Sec.	
Taken	<u>Dec 9</u>		<u>19 17</u>
By	<u>L. M. Gim</u>		

MATERIAL FOR THIS WELL RECEIVED FROM FOLLOWING SOURCES:

Well # 4599 Quincy Super

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
Mud		40				
Plate	40	140			60	
Sand	140	160				
lime	160	260				
Plate	260	660				
lime	660	690				
Coal Rock	690	770				
lime	770	830				
Plate & shells	830	885				
lime	885	1025				
Plate	1025	1060				
lime	1060	1340				
Sand	1340	1400				
Plate	1400	1410				
Sand	1410	1580				
Sand	1580	1660				
Plate	1660	1700				
lime	1700	1780				
Sand	1780	1820		1815		Sett
Plate	1820	1856				
lime	1856	1888				
Plate	1888	1922				
lime	1922	1954				
Plate	1954	1966				
Big lime	1966	2025				
Big lime	2025	2112				
Plate	2112	2250				
Sand	2250	2330				Steel line 2330'
Plate & shells	2330	2641				
Jordan sand	2641	2645		2643		
Plate	2645	2700				
Old Opt		2700				

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: HERRINGTON, HOWARD Operator Well No.: 4599

LOCATION: Elevation: 1162.00 Quadrangle: OXFORD
District: COVE County: DODDRIDGE
Latitude: 11910 Feet South of 39 Deg. 10 Min. 0 Sec.
Longitude 10490 Feet West of 80 Deg. 45 Min. 0 Sec.

Well Type: OIL _____ GAS x

Company: Equitrans Inc.
3500 Park Lane
Pittsburgh, PA 15275

Coal Operator Franklin Maxwell Hrs.,
or Owner c/o Union National Bank
P. O. Box 2330
Clarksburg, WV 26302

Agent: Bill Hostutler
Inspector: Mike Underwood
Permit Issued: 08/20/91

Coal Operator _____
or Owner _____

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Upshur ss:

Phillip Pulliam and Alvin Sorcan

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Equitrans, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 29 day of August, 1991, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Plugged back April 1974	2700	2150	2" 2105	0
cement	2150	1900	7" 10	1970
6% gel	1900	1400	10" 0	277
cement	1400	1300		
6% gel	1300	1000		
cement	1000	900		
6% gel	900	200		
cement	200	surface		

Description of monument: 7" casing with API 4Ft. out of ground

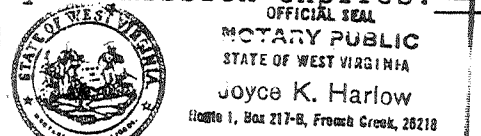
and that the work of plugging and filling said well was completed on the 4 day of September, 1991.

And further deponents saith not.

Phillip Pulliam
Alvin Sorcan

Sworn and subscribe before me this 9 day of September, 1991

My commission expires June 16, 1993



Joyce K. Harlow
Notary Public

SEP 23 1991