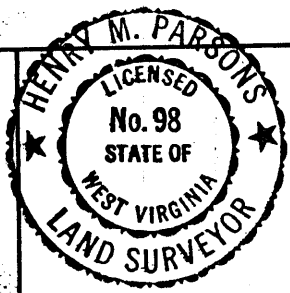


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 85-6600-  
DRAWING NO. 85-6600-A  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1 IN 2500  
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION OF 1377 ON LITTLETON TOPO

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) Henry M. Parsons  
R.P.E. \_\_\_\_\_ L.L.S. No 98



PLACE SEAL HERE

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



DATE JULY 17, 1985  
OPERATOR'S WELL NO. RINEHART # 1  
API WELL NO.

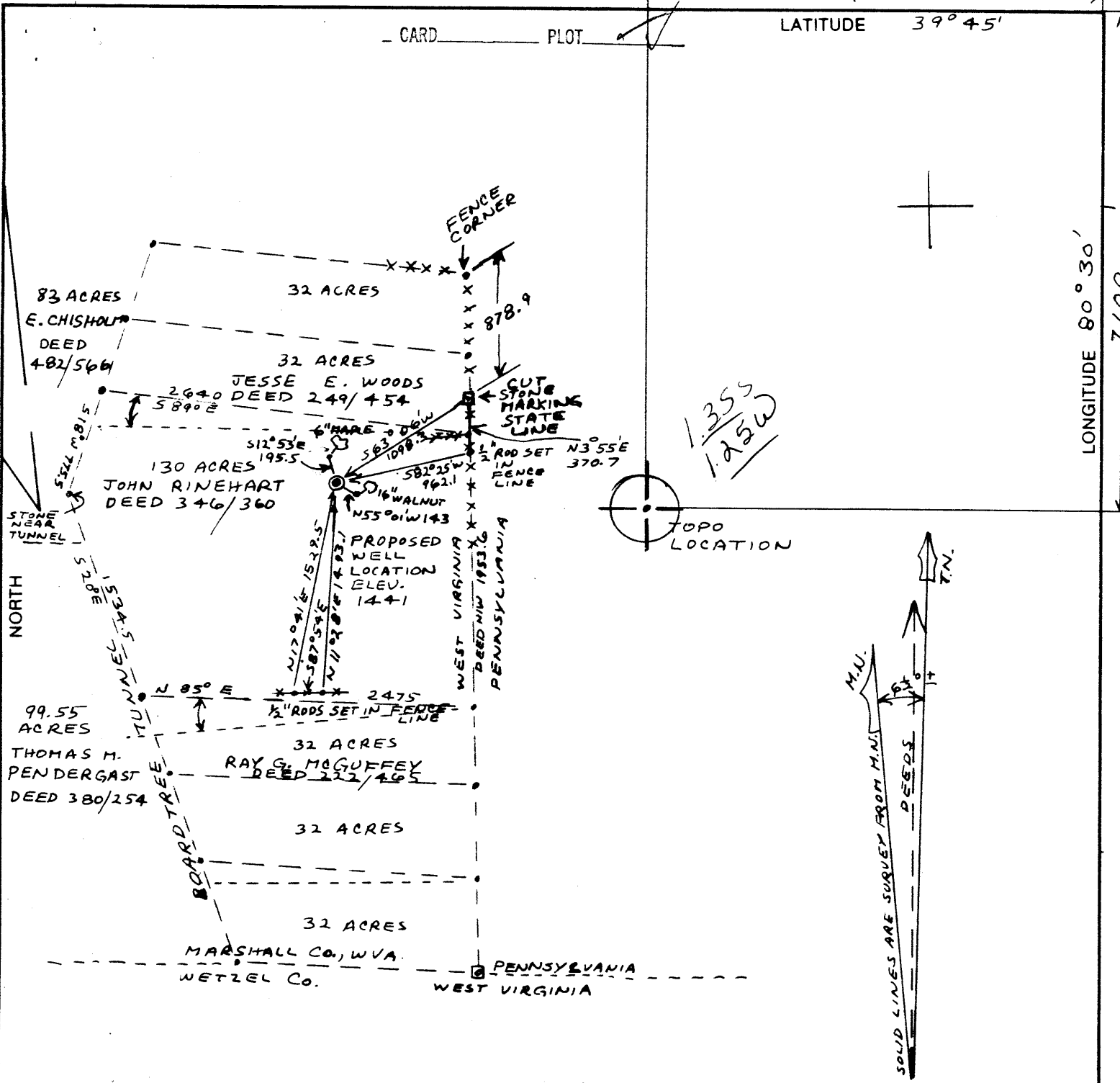
47 051 0712-P  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS \_\_\_\_\_ LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS,") PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
LOCATION: ELEVATION 1441 WATERSHED FISH CREEK  
DISTRICT LIBERTY COUNTY MARSHALL  
QUADRANGLE LITTLETON  
SURFACE OWNER MINNIE B. RINEHART ACREAGE 130  
OIL & GAS ROYALTY OWNER MINNIE B. RINEHART, ETAL. LEASE ACREAGE 130.00  
LEASE NO. HB-315-13  
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 FIFTH SANDSTONE ESTIMATED DEPTH 3550'  
WELL OPERATOR HADDAD AND BROOKS, INC. DESIGNATED AGENT HENRY M. PARSONS  
ADDRESS P.O. BOX 714 WASHINGTON, PA. 15301-1153 ADDRESS 121 GLENVIEW DRIVE NEW MARTINSVILLE, W.V. 26155

**AUG 25 1986**

MARSH COUNTY NAME PERMIT 0712-P



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

FILE NO. 85-6600-  
 DRAWING NO. 85-6600-A  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION OF 1377 ON LITTLETON TOPO

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) Henry M. Parsons  
 R.P.E. \_\_\_\_\_ I.L.S. No 98



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

DATE JULY 17, 19 85  
 OPERATOR'S WELL NO. RINEHART # 1  
 API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1441 WATERSHED FISH CREEK  
 DISTRICT LIBERTY 4 COUNTY MARSHALL  
 QUADRANGLE LITTLETON 430 007 NE3

SURFACE OWNER MINNIE B. RINEHART ACREAGE 130  
 OIL & GAS ROYALTY OWNER MINNIE B. RINEHART, ETAL. LEASE ACREAGE 130.00  
 LEASE NO. HB-315-13

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 FIFTH SANDSTONE ESTIMATED DEPTH 3550'  
 WELL OPERATOR HADDAD AND BROOKS, INC. 361 DESIGNATED AGENT HENRY M. PARSONS  
 ADDRESS P.O. BOX 714 WASHINGTON, PA. 15301-1153 ADDRESS 121 GLENVIEW DRIVE NEW MARTINSVILLE, W.V. 26155

SEP 16 1985

COUNTY NAME \_\_\_\_\_  
 PERMIT \_\_\_\_\_



Date March 4, 1986  
 Operator's Well No. #1  
 Farm Rinehart  
 API No. 47 - 051 - 0712

APR 11 1986

State of West Virginia  
 DEPARTMENT OF ENERGY  
 Oil and Gas Division

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

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

LOCATION: Elevation: 1441' Watershed Fish Creek  
 District: Liberty County Marshall Quadrangle Littleton

COMPANY Haddad and Brooks, Inc.  
 ADDRESS P.O. Box 714, Washington, PA 15301-1153  
 DESIGNATED AGENT Henry M. Parsons  
 ADDRESS 121 Glenview Dr., New Martinsville, WV 26155  
 SURFACE OWNER Minnie B. Rinehart et al  
 ADDRESS 96 St. Johns Road, Weirton, WV 26062  
 MINERAL RIGHTS OWNER Minnie B. Rinehart et al  
 ADDRESS 96 St. Johns Road, Weirton, WV 26062  
 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
General Delivery  
 ADDRESS Middlebourne, WV 26149  
 PERMIT ISSUED September 11, 1985  
 DRILLING COMMENCED November 13, 1985  
 DRILLING COMPLETED November 17, 1985

Casing Tubing Size 20-16 Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
11 3/8"	30'	30'	Not cemented
9 5/8			
8 5/8	1852'	1852'	Cemented to surface
7			
5 1/2			
4 1/2	3442'	1438'	Top of Cement at 2085'
3			
2	1760'	1760'	None
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
 CONTINUOUS PROGRESSION FROM DRILLING OR  
 REWORKING. VERBAL PERMISSION OBTAINED  
 - To Plug Back on November 29, 1985

GEOLOGICAL TARGET FORMATION Gordon Sandstone Depth 3346-3427 feet  
 Depth of completed well 3565' feet Rotary X / Cable Tools     
 Water strata depth: Fresh None feet; Salt 2225 feet  
 Coal seam depths: 1190' and 1290' Is coal being mined in the area? No

OPEN FLOW DATA  
 Producing formation Big Injun, Berea Pay zone depth 2556-3452 feet  
Fourth, Gordon, Thirty-Foot,  
 Gas: Initial open flow None Mcf/d Oil: Initial open flow None Bbl/d  
 Final open flow None Mcf/d Final open flow None Bbl/d  
 Time of open flow between initial and final tests 24 hours  
 Static rock pressure 700 psig (surface measurement) after 15 <sup>days</sup> ~~hours~~ shut in.  
 (If applicable due to multiple completion--)  
 Second producing formation Dunkard Pay zone depth 1778-1828 feet  
 Gas: Initial open flow None Mcf/d Oil: Initial open flow 3 1/2 Bbl/d  
 Final open flow None Mcf/d Oil: Final open flow 3 1/2 Bbl/d  
 Time of open flow between initial and final tests 24 hours  
 Static rock pressure 40 psig (surface measurement) after 24 hours shut in.

(Continue on reverse side)

**DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.**  
 Four Stage fracture treatment on 11/26/85

- Stage 1 Perforate Gordon and Fourth Sandstones with 13 holes (3418'-3451'). *show oil in Gordon*  
 Treated with 526 barrels of gelled water and 13,000 pounds of sand.
- Stage 2 Perforate Thirty-foot Sandstone with 13 holes (3346'-3357'). *show gas*  
 Treated with 385 barrels of gelled water and 10,500 pounds of sand.
- Stage 3 Perforate Berea Sandstone with 13 holes (3148'-3165'). *show gas*  
 Treated with 275 barrels of gelled water and 9000 pounds of sand.
- Stage 4 Perforated Big Injun Sandstone with 20 holes (2590'-2638'). *show gas*  
 Treated with 415 barrels of gelled water and 18,000 pounds of sand.
- Log back to 1850' on 12/18/85. Perforated Dunkard Sandstone with 4 shots per foot (1783'-1795').  
 Stimulated formation with Stress frac system.

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
			Including indication of all fresh and salt water, coal, oil and gas
KB to GL	0	10'	
Soil	10'	15'	
Sand, Shale & Redrock	15'	480'	
Sand & Shale	480'	1190'	
Coal	1190'	1195'	
Sand & Shale	1195'	1290'	
Pittsburgh Coal	1290'	1295'	
Sand, Shale & Redrock	1295'	1772'	
Dunkard Sandstone	1778'	1828'	Show of Oil
Sand and Shale	1828'	2052'	
Salt Sands	2052'	2298'	1/2" stream of water @ 2225'
Shale	2298'	2456'	
Greenbrier	2456'	2556'	
Big Injun	2556'	2804'	Show of Gas
Shale	2804'	3148'	
Berea	3148'	3180'	Show of Gas
Sand & Shale	3180'	3344'	
Thirty-Foot	3344'	3359'	
Shale	3359'	3396'	
Gordon	3396'	3427'	Show of Oil
Shale	3427'	3448'	
Fourth	3448'	3452'	
Shale	3452'	3565'	
Total Depth		<u>3565'</u>	

(Attach separate sheets as necessary)

Haddad and Brooks, Inc.

Well Operator

By: James J. Cropper

Date: 3/4/86

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 coal, encountered in the drilling of a well."



1) Date: August 12, 19 85  
 2) Operator's Well No. Rinehart #1  
 3) API Well No. 47 -051-0712  
 State County Permit

**RECEIVED**  
AUG 22 1985

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

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

- 4) WELL TYPE: A Oil  / Gas \_\_\_\_\_  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: 1441' Watershed: Fish Creek  
 District: Liberty County: Marshall Quadrangle: Littleton
- 6) WELL OPERATOR Haddad & Brooks, Inc. CODE: 20450 7) DESIGNATED AGENT Henry M. Parsons  
 Address 905 Washington Rd., P.O. Box 714 367 Address 121 Glenview Drive  
Washington, PA 15301-1153 New Martinsville, WV 26155
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert A. Lowther  
 Address General Delivery  
Middlebourne, WV 26149
- 9) DRILLING CONTRACTOR: Name Not yet known  
 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, Fifth Sandstone 422
- 12) Estimated depth of completed well, 3550' feet
- 13) Approximate trata depths: Fresh, Unknown feet; salt, Unknown feet.
- 14) Approximate coal seam depths: 886', 1160', 1266' 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"	H-40	38#		X	40'	40'		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8"	J-55	23#	X	X	1715'	1715'	455 sacks	CTS By Rule 15.05
Production	4 1/2"	J-55	10.5#	X			3550'	130 sacks	Depths set By Rule 15.01
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-051-0712 Date September 11 1985

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 September 11, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>411962</u>
---	---------------------------	--------------------------	----------------------------	--------------------

[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 ENERGY  
OIL AND GAS WELLS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL (Plug Back)

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, 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.

Consolidation Coal Company  
Coal Operator or Owner  
450 Racetrack Rd., Washington, PA 15301  
Address

---

Coal Operator or Owner  
Address  
Minnie B. Rinehart et al  
Lease or Property Owner  
96 St. Johns Road, Weirton, WV 26062  
Address

Haddad and Brooks, Inc.  
Name of Well Operator  
905 Washington Rd., P.O. Box 714, Washington, PA  
Complete Address 15301-1153

---

Rinehart No. 1 19  
WELL AND LOCATION  
Liberty District  
Marshall County  
WELL NO. 1  
Rinehart Farm

STATE INSPECTOR SUPERVISING ~~EMERGENCY~~ PLUG BACK Robert Lowther  
AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Marshall ss:  
Jerrold J. Hopkins and \_\_\_\_\_

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 Haddad & Brooks, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 18th day of December, 19 85, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
TD - 3300'	Cement Plug (15 sks Neat)			
3300'-2650'	6% Gel			
2650'-2525'	Cement Plug (10 sks Neat)			
2525'-1850'	6% Gel			
1850'		8 5/8" Bridge Plug with 5 sks Cal-Seal on top		
		11 3/4"	0'	30'
		8 5/8"	0'	1852'
		4 1/2"	2004'	1438'
Coal Seams	Description of Monument			
(Name) Coal 1190'-1195'				
(Name) Pittsburgh Coal 1290'-1295'				
(Name)				
(Name)				

and that the work of plugging and filling said well was completed on the 18th day of December, 19 85.

And further deponents saith not.

Sworn to and subscribed before me this 12th day of August, 19 86.  
*Jerrold J. Hopkins*  
*Notary Public*

**RECEIVED**  
DEC 22 1986

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, 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.

None  
Coal Operator or Owner  
Address  
Coal Operator or Owner  
Address  
Lease or Property Owner  
Address

Haddad And Brooks Inc  
Name of Well Operator  
P. O. Box 714 Washington Pa 15301  
Rinehart No 1 Complete Address Dec. 17 19 86  
WELL AND LOCATION  
Liberty District  
Marshall County  
M. W. Rinehart # 1  
WELL NO. 1  
Henry M. Parsons Farm

STATE INSPECTOR SUPERVISING PLUGGING Mike Underwood

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of \_\_\_\_\_

ss:

Threll Clutter and Larry Helwick

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 Haddad And Brooks Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 9 day of Dec, 19 86, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
1850 1725	Cement	4 1/2 2 1/2	1738 0	0 1860
1820 0	Gel			
1325 To 1160	Cement			
Coal Seams				
(Name)		Description of Monument		
(Name)		8" Casing Extending Above		
(Name)		Ground 30"		
(Name)				

and that the work of plugging and filling said well was completed on the 16 day of Dec, 19 86.

And further deponents saith not.

Sworn to and subscribed before me this 17 day of Dec, 19 86.

Threll Clutter

Larry Helwick

Linda L. Childers  
Notary Public

My commission expires:

Dec 10, 1996

Permit No. 47 051 0712 - 0

DEC 30 1986