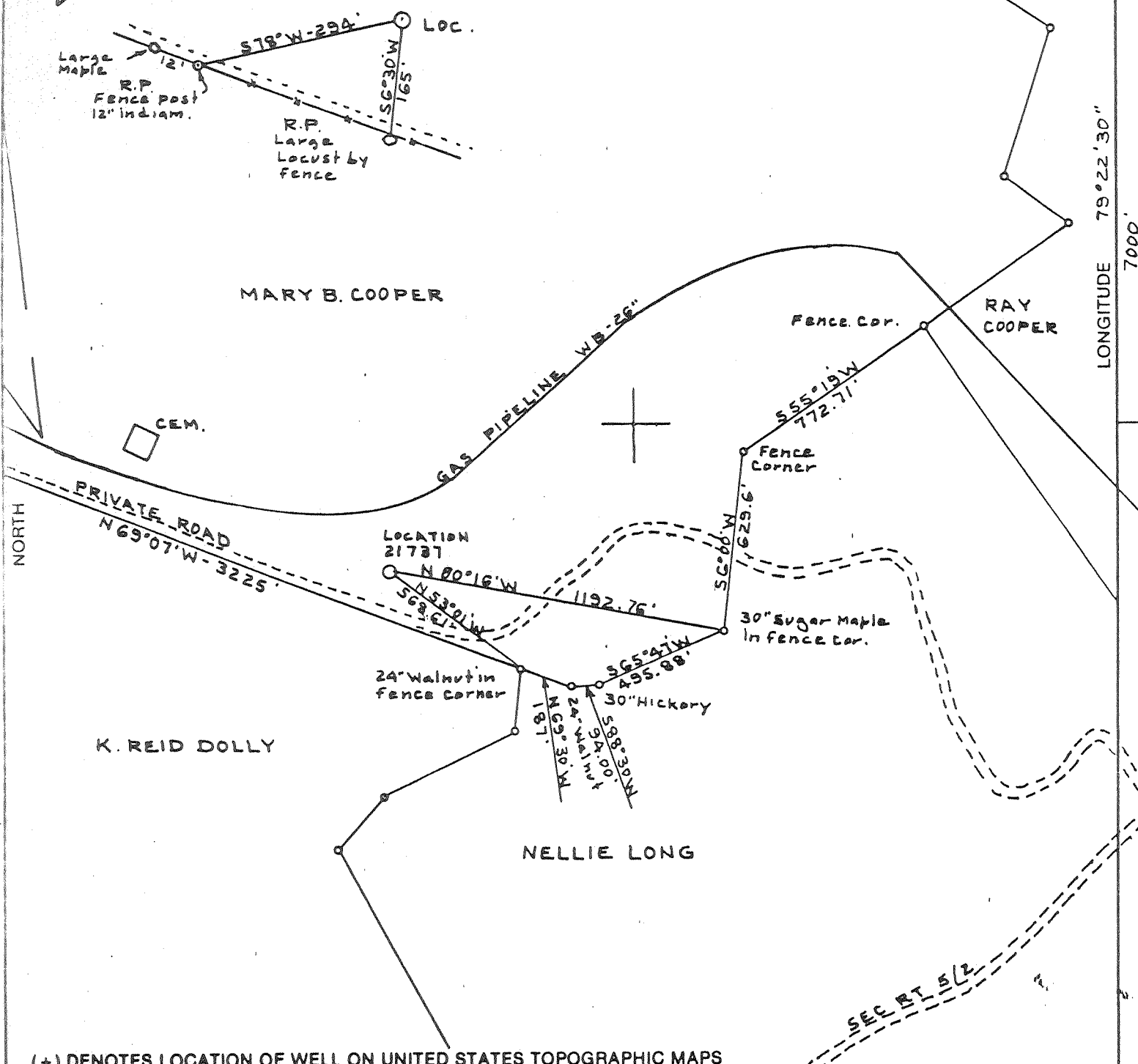


Janie 5/18/89

6850' LATITUDE 38° 52' 30"



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

FILE NO. BK 111 PG 12
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION U.S.G.S. El. Top Knob
S 56° 24' E - 3937' from loc.
El. 2684'

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) C. J. Volney Jr.
 R.P.E. _____ L.S. 02

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MARCH 15, 19 88
 OPERATOR'S WELL NO. 21737 T
 API WELL NO. _____

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

LOCATION: ELEVATION 2807.00 WATERSHED SENECA CREEK OF NORTH FORK
 DISTRICT UNION COUNTY PENDLETON
 QUADRANGLE ONEGO 7.5'

SURFACE OWNER MARY B. COOPER ACREAGE 616
 OIL & GAS ROYALTY OWNER MARY B. COOPER LEASE ACREAGE 616
 LEASE NO. 200203

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8645
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT J.E. CAMPBELL
 ADDRESS P.O. BOX 1273 ADDRESS P.O. BOX 1273
CHARLESTON WV 25325 CHARLESTON WV 25325

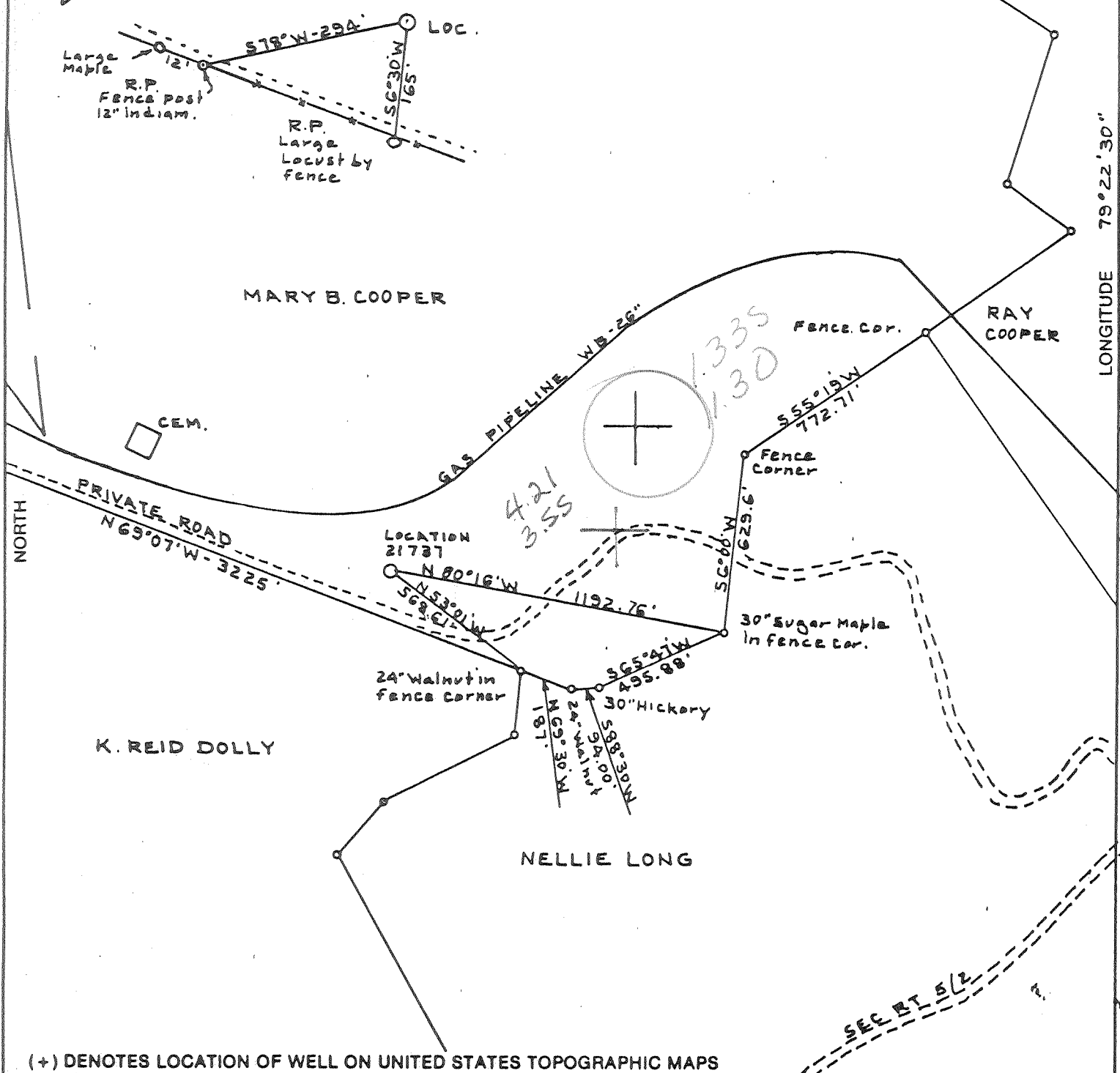
DEEP WELL 1-0 (0)

COUNTY NAME PENDL.
 PERMIT 0014

APR 06 1990

Janie 5/18/89

6850" LATITUDE 38°52'30"



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

FILE NO. SK 111 PG 12
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION U.S.G.S. El Top Knob S56°24'E - 3937' from loc. El. 2684'

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) C. J. Valley Jr.
 R.P.E. LS 92

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MARCH 15, 1988
 OPERATOR'S WELL NO. 21737 T
 API WELL NO. 47-071-00014
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2807.00 WATERSHED SENECA CREEK OF NORTH FORK
 DISTRICT UNION COUNTY PENDLETON
 QUADRANGLE ONEGO 7.5' 522 094 5 0
 SURFACE OWNER MARY B. COOPER ACREAGE 616
 OIL & GAS ROYALTY OWNER MARY B. COOPER LEASE ACREAGE 616
 LEASE NO. 200203
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8645
 WELL OPERATOR COLUMBIA NATURAL RESOURCES DESIGNATED AGENT J.E. CAMPBELL
 ADDRESS P.O. BOX 1273 ADDRESS P.O. BOX 1273
 CHARLESTON WV 25325 CHARLESTON WV 25325

MAY 20 1989

FORM WW-6

COUNTY NAME PERMIT

071 14

Well 21737

<u>Formations</u>	<u>Footage</u>
Sand & Shale	0 - 440
Red Rock	440 - 460
Sand & Shale	460 - 1267
Red Rock	1267 - 1285
Sand & Shale	1285 - 6770
Brallier Shale	6770 - 7800
Harrell Shale	7800 - 7910
Tully LS	7910 - 7970
Mahantango	7970 - 8205
Upper Marcellus	8205 - 8280
Purcell LS	8280 - 8310
L. Marcellus	8310 - 8400
Needmore	8400 - 8534
Oriskany	8534 - 8750
T.D.	8750

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MAR 20 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

3/29/94

071-00014

Issued 5/22/89 Expires 5/22/91

Page ___ of ___

FORM WW-2B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

10460 6 521

- 1) Well Operator: Columbia Natural Resources, Inc.
- 2) Operator's Well Number: 21737-TPI 3) Elevation: 2807'
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Oriskany 475
- 6) Proposed Total Depth: 8645 feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: _____
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Drill Well New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13-3/8"	H	48	60	60	42
Fresh Water						300SR10-11.3
Coal						300SR10-11.2.2
Intermediate	9-5/8"	J	36	1900	1900	1580
Production	5-1/2"	N	17	8645	8645	160
Tubing						300SR10-11.1
Liners						

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MAY 17 1989

PACKERS : Kind _____
Sizes _____
Depths set _____

5015503

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent
 (Type)

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MAY 17 1989

1) Date: April 17, 1989
2) Operator's well number 21737-T
3) API Well No: 47 - 071 - 00014
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name See Attached List
Address _____

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name _____
Address _____

Name _____
Address _____

6) Inspector Phillip TRACY
Address Rt 2, Box 375A
Montrose, W. Va. 26283
Telephone (304)- 636-8798

(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

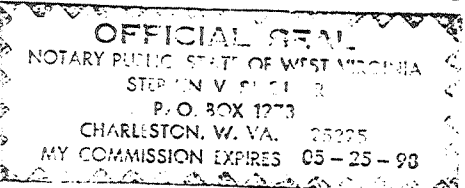
- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form 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.

Well Operator Columbia Natural Resources, Inc.
By: [Signature]
Its: Vice President, Production and Drilling Operations
Address P. O. Box 1273
Charleston, WV 25325
Telephone 304/357-2000



Subscribed and sworn before me this 21 day of April, 1989

My commission expires May 25, 1998 [Signature] Notary Public

071-00014

Well 21737-T

Mary B. Cooper
General Delivery
Seneca Rocks, WV 26884 ✓

Ruth Lee Smith & Erman Smith
38 Stabilizer Drive
Baltimore, MD 21220 ✓

Herbert Lee Cooper &
Dorothy Cooper ✓
605 Boxlder Drive
Edgewood, MD 21040 ✓

Freddie L. Cooper &
Patricia Cooper ✓
General Delivery
Seneca Rocks, WV 24886 ✓

Geneva Champ &
Harlem Champ ✓
618 Dorsey Avenue
Essex, MD 21221 ✓

Randy Teter & Rebecca Teter ✓
General Delivery
Onego, WV 26884 ✓

Mary Catherine George &
Junior George ✓
2407 Woodlea Drive
Joppa, MD 21085 ✓

Virginia Rexrode &
Ray Rexrode ✓
15518 Main Boulevard
Accolceek, MD 20607 ✓

Othetta Conrad &
Richard Conrad ✓
Route 1, Box 400
Reedsville, WV 26588 ✓

JoAnn Watts & Marlin Watts ✓
Route 1, Box 30
Seneca Rocks, WV 26884 ✓

Carl Cooper & Peggy Cooper ✓
Cabins, WV 26855 ✓

Betty Jean Gordon &
Donald Gordon ✓
Route 1, Box 44B
Green Bank, WV 24944 ✓

Daniel M. Cooper &
Darlene Cooper ✓
General Delivery
Circleville, WV 26804 ✓

no return card 5/15/89

RECEIVED
MAY 17 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

*Mailed
4/12/89*

RECEIVED
MAR 21 1990

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE 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.

Mary B. Cooper
Coal Operator or Owner
General Delivery, Seneca Rocks, WV 26884
Address
Coal Operator or Owner
Address
Mary B. Cooper
Lease or Property Owner
General Delivery, Seneca Rocks, WV 26884
Address

Columbia Natural Resources, Inc.
Name of Well Operator
P. O. Box 6070, Charleston, WV 25362
Complete Address
January 23 19 90
WELL AND LOCATION
Union District
Pendleton County
WELL NO. 21737

STATE INSPECTOR SUPERVISING PLUGGING Mary B. Cooper Farm
Phillip Tracy
AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Kanawha

ss:

DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY

Marvin A. Grayson and Mary B. Cooper
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 Columbia Natural Resources, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 30th day of August, 19 89, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSO PULLED	CSO REF. LIN.
8793 - 8300	Cement	493'	-	-
8300 - 6508	Gel/Mud	100'		
6508 - 6400	Cement			
6400 - 4600	Gel/Mud	100'		
4600 - 4500	Cement			
4500 - 2098	Gel	198' 9-5/8"	-	1998
2098 - 1900	Cement			
1900 - 50	Gel	50'		
50 - Surface	Cement			
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				

M. J. H/a/90
Description of Monument
Erect monument as prescribed by law.

and that the work of plugging and filling said well was completed on the 31st day of August, 19 89.
And further deponents saith not.

Sworn to and subscribed before me this 20 day of March, 19 90
Stephen Shultz
Notary Public

My commission expires:
May 25, 1998

Permit No. 071-0014

071-0014-P