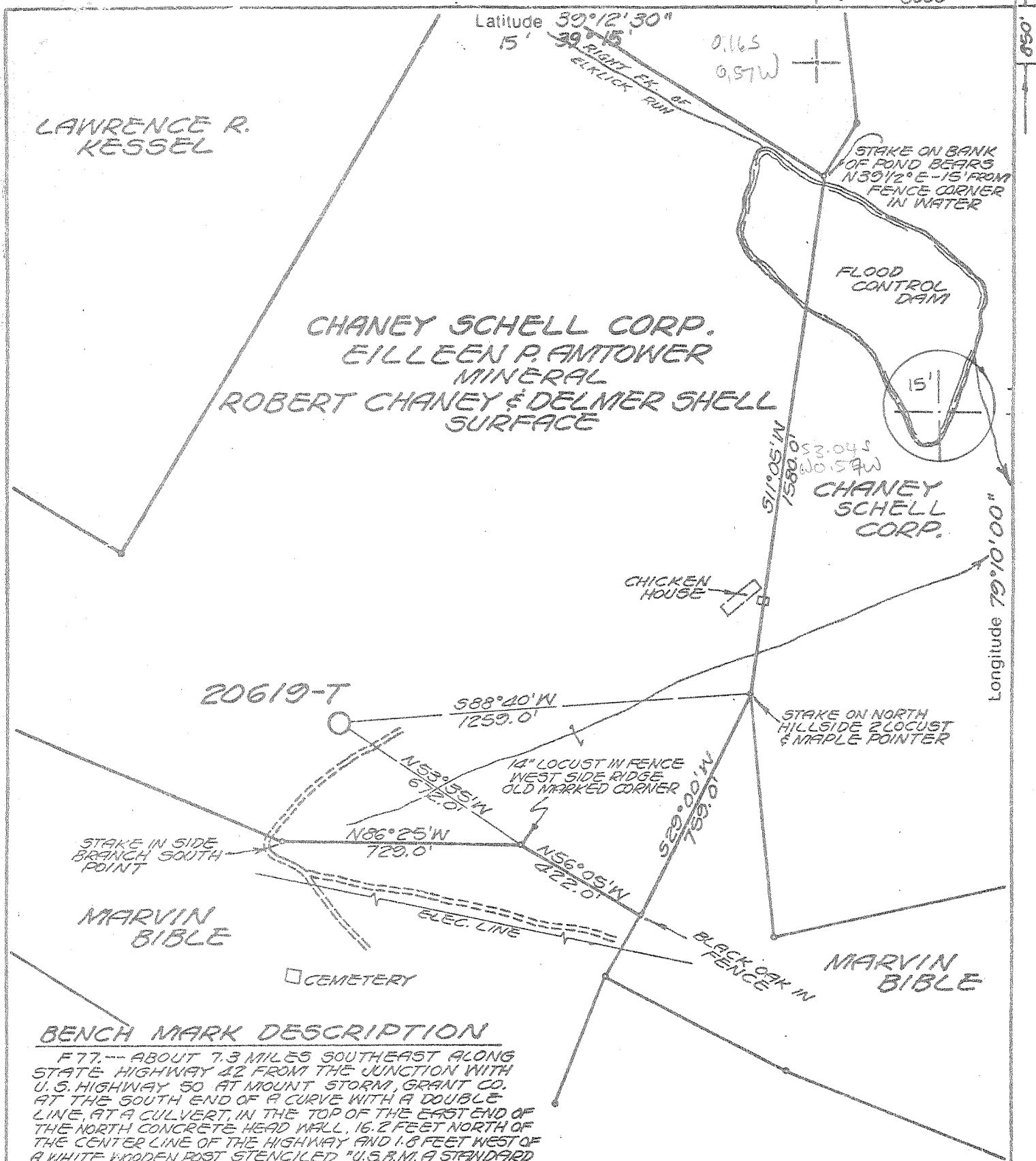


11/17/78



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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA.
Minimum degree of accuracy is one part in 200

- New Location
- Storage
- Drill Deeper
- Abandonment 4/21/79
- Re-Drill/Fracture

ENGR. REG. N^o 2330
BOX 1273 CHARLESTON, W. VA.

Signed *Adrian E. Chapman*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm CHANNEY SCHELL CORP.-EILLEN P. ANTOWER
 Lease PT. 180320 177689 Acres 131.5^{ac}
 Well Farm No. _____ Ser. No. 20619-T
 Elevation - Spirit Level 1917.89' NW
 Quadrangle GREENLAND GAP, W. VA 7 1/2, 15'
 Township or District UNION
 County GRANT
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 39°12'22" LONG. 79°10'38"
 File No. 0030NE Dwg. No. _____
 Date JULY 12, 1978 Scale 1" = 400'

FORM 1495 CF. 4 CSD

COLUMBIA GAS SYSTEM
COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP
STATE OF WEST VIRGINIA

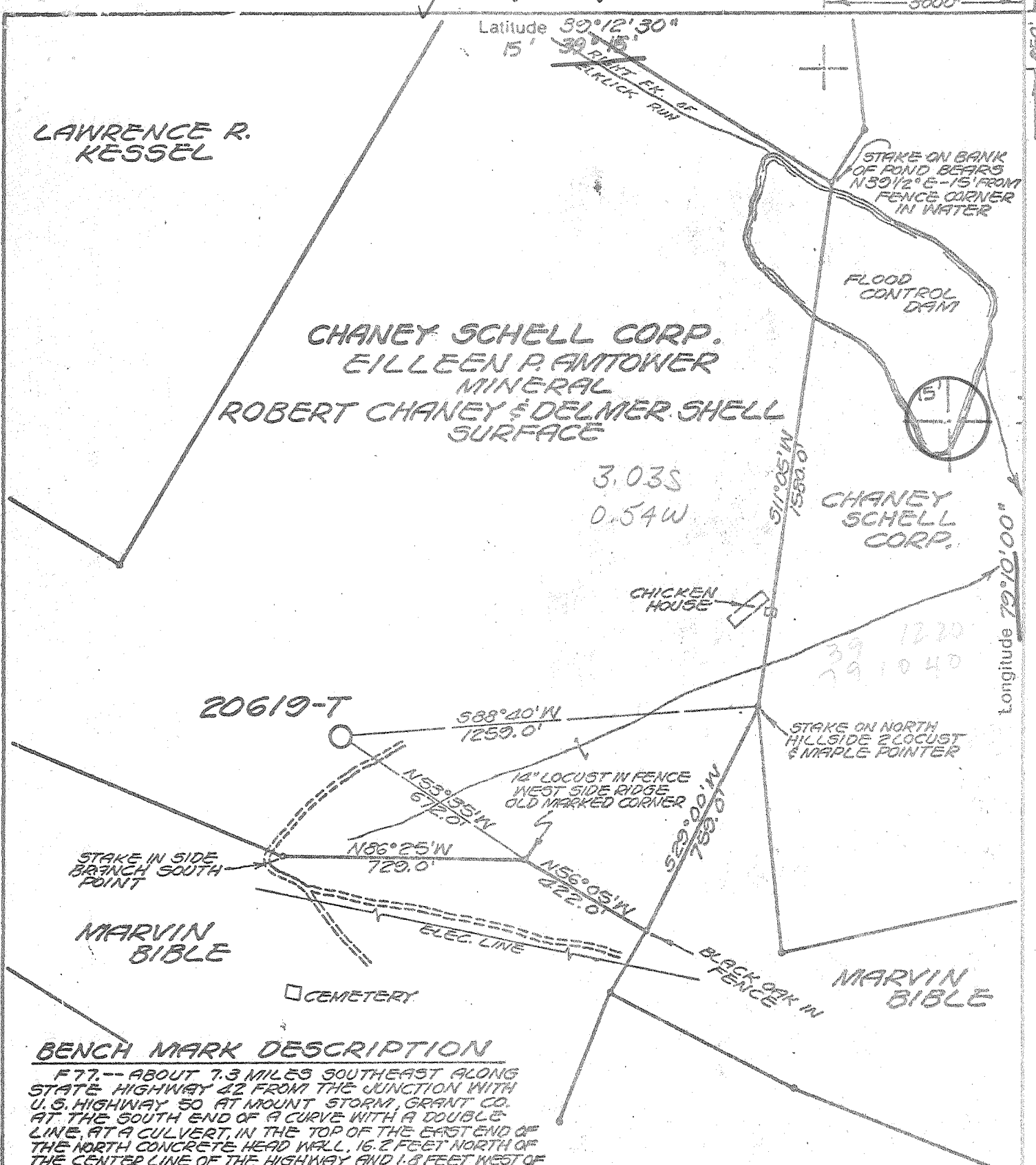
(+) Denotes Values Of Well On United States Topographic Maps

GRANT - 3 - P

Scale 15' 7 1/2'

Deep Well 47-023

MAY 22 1979



LAWRENCE R. KESSEL

CHANEY SCHELL CORP.
EILLEN P. ANTOWER
MINERAL
ROBERT CHANEY & DELMER SHELL
SURFACE

3.03S
0.54W

CHANEY SCHELL CORP.

CHICKEN HOUSE

20619-T

588°40'W
1250.0'

N53°25'W
672.0'

12" LOCUST IN FENCE
WEST SIDE RIDGE
OLD MARKED CORNER

N86°25'W
729.0'

N56°05'W
422.0'

S52°00'W
788.0'

STAKE ON NORTH
HILLSIDE 2 LOCUST
& MAPLE POINTER

STAKE IN SIDE
BRANCH SOUTH
POINT

MARVIN BIBLE

CEMETERY

BLACK OAK IN
FENCE

MARVIN BIBLE

BENCH MARK DESCRIPTION

F77-- ABOUT 7.3 MILES SOUTHEAST ALONG STATE HIGHWAY 22 FROM THE JUNCTION WITH U.S. HIGHWAY 50 AT MOUNT STORM, GRANT CO. AT THE SOUTH END OF A CURVE WITH A DOUBLE LINE, AT A CULVERT, IN THE TOP OF THE EAST END OF THE NORTH CONCRETE HEAD WALL, 16.2 FEET NORTH OF THE CENTER LINE OF THE HIGHWAY AND 1.8 FEET WEST OF A WHITE WOODEN POST STENCILED "U.S.B.M. A STANDARD DISK STAMPED "F77.941"

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

ENGR. REG. N^o 2330
BOX 1273 CHARLESTON, W. VA.

Signed *Adrian Chapman*

FORM 1495 CE 4 CSD

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm CHANEY SCHELL CORP.-EILLEN P. ANTOWER
 Lease PT. 180920 Acres 131.5[±]
177689
 Well Farm No. _____ Ser. No. 20619-T
 Elevation - Spirit Level 1917.89' NW
 Quadrangle GREENLAND GAP, W. VA 7^{1/2}
 Township or District UNION
 County GRANT
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 39°12'22" LONG. 79°10'38"
 File No. 0030NE Dwg. No. _____
 Date JULY 12, 1978 Scale 1" = 400'

COLUMBIA GAS SYSTEM
COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP

STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

GRANT - 3

Scale 15' 7 1/2'

47 - 023

Deep Well 8400' Criskany 1-0



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAY - 2 1979

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Location Greenland Gap

Permit No. Grant-3

Rotary Oil
Cable Gas
Reynolds Cond
Water Flood Storage
Disposal dry
47-023-0003 (Kind)

Company Columbia Gas Transmission Corp.
Address P. O. Box 1273, Charleston, WV
Name Chaney Schell Corp. Acres 131.5
Location (waters) Right Fork of Elk Run
Well No. 20619-T Elev. 1917.89'
District Union County Grant
The surface of tract is owned in fee by R. Chaney & D. Schell
Address Scherr, W. Va. 26726
Mineral rights are owned by E. P. Amtower et. al.
Address Box 182, New Creek, W. Va.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up (Cu. ft. (Sks.))
20-1/2	61'	61'	100 sacks
15-1/2 3/8	421.93	421.93	350 sacks
9 5/8	2422.53	2422.53	650 sacks
8 5/8			
7	9087	9087	160 sacks
5 1/2			
4 1/2			
3			
2			
Linars Used			

Drilling Commenced January 22, 1979
Drilling Completed April 20, 1979

Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Well treatment details:

Plugged & Abandoned 4/23/79

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Chermung			0	3090		
Brallier			3090	4055		
Harrell Shale			4055	4230		
Tully			4230			
Harrell Shale			4230	5740		
Brallier			5740	6570		Gas Show @ 4600'
Harrell Shale			6570	6740		Gas Show @ 5350'
Tully			6740			
Harrell Shale			6740	6830		
Harrell Shale			6830	6860		
Poke Joy			6860	6880		
Harrell Shale			6880	7280		Gas Show @ 7100'
Tully			7280			
Harrell Shale			7280	8080		
Marcellus Shale			8080	8500		
Purcell			8500			
Marcellus Shale			8500	8910		
Needmore Shale			8910	9128		
Oriskany			9128	9350		
Helderberg			9350	9456		

MAY 22 1979

* Indicate Effect of Treatment



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

NOV 17 1978

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 November 16, 1978

Surface Owner R. Chaney & D. Schell
Address Scherr, W. Va. 26726
Mineral Owner Eileen P. Amtower - O.C. Cannon
Address Box 182, New Creek, W. Va. - 4885 Main
Coal Owner Same as above St., Keyser, W. Va.
Address _____
Coal Operator Unoperated
Address _____

Company Columbia Gas Transmission Corp.
Address P. O. Box 1273, Charleston, WV
Farm Chaney-Schell Corp. Acres 131.5
Location (waters) Rt. Fk. of Elk Run
Well No. 20619-T Elevation 1917.89
District Union County Grant
Quadrangle Greenland Gap

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 3-22-79

INSPECTOR
TO BE NOTIFIED Robert S. Stewart
ADDRESS P. O. Box 345, Jane Lew, W. Va.
PHONE 884-7782

Robert S. Stewart
Deputy Director - Oil & Gas Division

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 June 16 1976 by _____ made to Col. Gas Trans. Corp. and recorded on the _____ day of _____ 1976 in Grant County, Book 114 Page 342

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:

W. VA. OIL & GAS CONSERVATION COMMISSION
1613 WASHINGTON STREET, EAST
CHARLESTON, WEST VIRGINIA 25311

Address
of
Operator

Very truly yours,
(Sign Name) *Robert S. Stewart*
Director, Exploration & Development
P.O. Box 1273
Street
Charleston
City or Town
West Virginia 25325
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 facilitating 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

GRANT-3

PERMIT NUMBER

47-023

