

M. 7 10/1/82

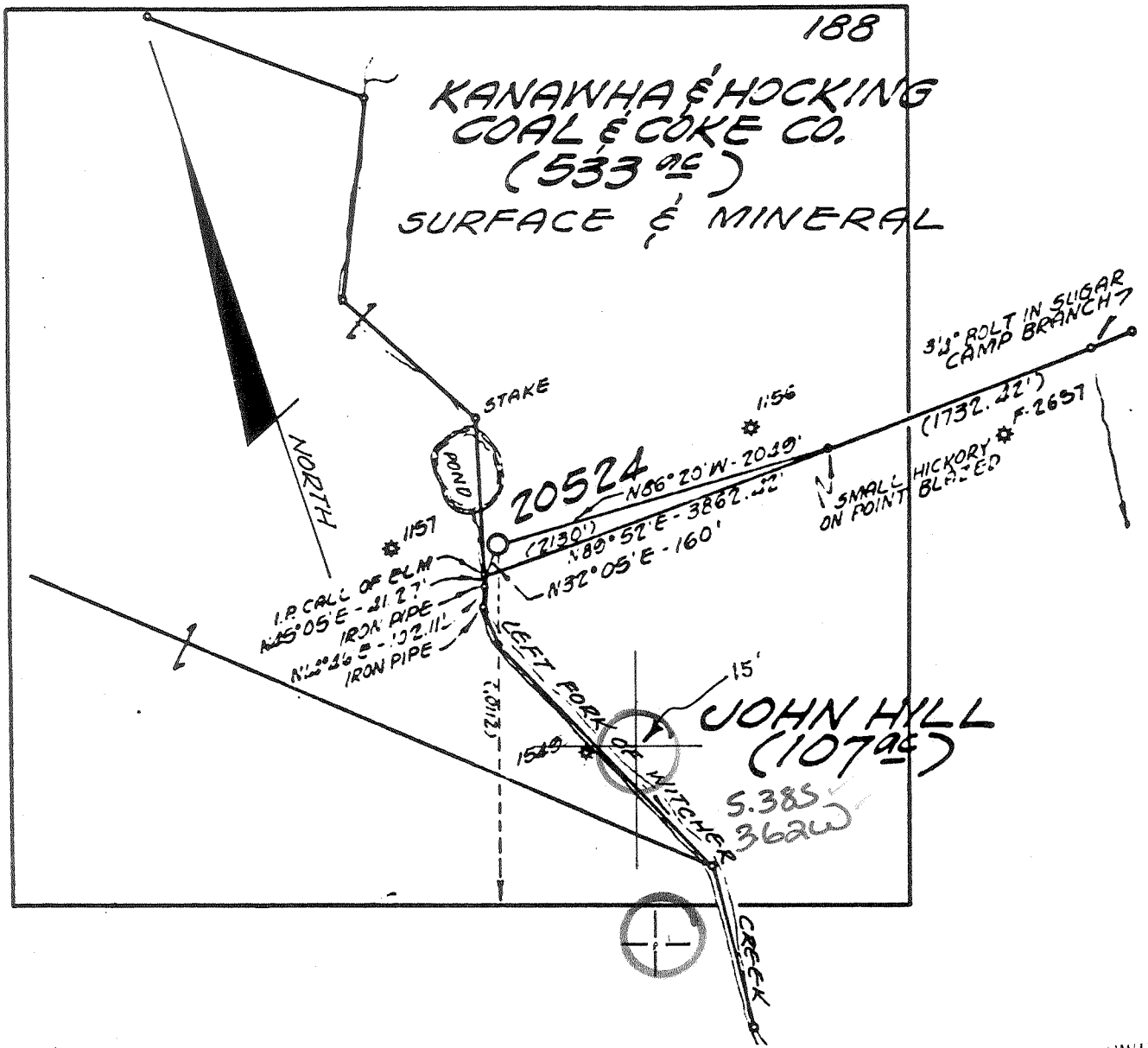
68

7050'

LATITUDE 38°17'30"
38°20

FARM MAP

X



81°25'
LONGITUDE 81°27'30"

REVISED 9-9-82

FILE NO. 68-51
DRAWING NO. 20524
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1 PART IN 2500
PROVEN SOURCE OF
ELEVATION U.S. GOV'T BM
ELEV. 700.44'

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF MINES
(SIGNED) [Signature]
R.P.E. _____ L.L.S. 99



(+) DENOTES LOCATION OF
WELL ON UNITED STATES
TOPOGRAPHIC MAPS
FORM IV-6
(8-78) LAT: 38°15'18"
LONG: 82°28'59"



DATE MARCH 28 19 77
OPERATOR'S WELL NO. 20524
API WELL NO. _____
47 - 039 - 3908
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 748.34 WATER SHED LEFT FORK OF WITCHER CREEK
DISTRICT CABIN CREEK COUNTY KANAWHA
QUADRANGLE QUICK Clendenen 15 SW
SURFACE OWNER KANAWHA & HOCKING COAL & COKE CO. ACREAGE 533
OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 640 (MERGER)
LEASE NO. 9279
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 CLINTON ESTIMATED DEPTH 6510'
WELL OPERATOR COL. GAS TRANS. CORP. DESIGNATED AGENT J.L. WEEKLEY
ADDRESS P.O. BOX 1273 ADDRESS SAME
CHARLESTON, W. VA. 25325

RECEIVED

JUL 14 1983

IV-35
(Rev 8-81)OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date July 12, 1983

Operator's

Well No. 20524

Farm Kanawha Hocking C. & C. Co.

API No 47- - 039 - 3908

JUL 25 1983

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production ___ / Underground Storage ___ / Deep x / Shallow ___ /)LOCATION: Elevation: 745.34 - 700.44 Watershed Left Fork of Witcher Creek
District: Cabin Creek County Kanawha Quadrangle QuickCOMPANY Columbia Gas Transmission CorporationADDRESS 1700 MacCorkle Ave., Charleston, WVDESIGNATED AGENT James L. WeekleyADDRESS 1700 MacCorkle Ave., Charleston, WVSURFACE OWNER Kanawha and Hocking Coal & Coke Co.ADDRESS P.O. Box 70194-T, Cleveland, OH. 44190MINERAL RIGHTS OWNER Same as above

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK HomerH. Daugherty ADDRESS Linden Rt., Box 3-A
Looneyville, WV 25259PERMIT ISSUED 10-12-82DRILLING COMMENCED 10-23-82DRILLING COMPLETED 11-20-82IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20- 16 Cond.	22'	22'	108 cu.ft.
13- 10 "	77'	77'	149 cu.ft.
9 5/8	2021'	2021'	200 sks.
8 5/8			
7	5024'	5024'	119 cu.ft.
5 1/2			
4 1/2	6517'	6517'	119 cu.ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Clinton Depth 6500' feetDepth of completed well 6534' feet Rotary x / Cable Tools _____Water strata depth: Fresh - feet; Salt _____ feetCoal seam depths: - Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Clinton Tuscarora Pay zone depth 6495-6513' feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 1,040 Mcf/d Final open flow _____ Bbl/dTime of open flow between initial and final tests 6 hoursStatic rock pressure 1620 psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Acidized Clinton 2-2-83 with 1500 Gallons 6% Mud Acid

Test after acidizing (6 hours) 809 Mcf

Perforated from 6495-6507' with 25 shots.

Fractured Clinton 2-9-83 with 500 gallons mud acid, 750 bbls. treating fluid, 30# gel system, and 22,000# 20/40 sand.

Test 6 hours after fracture 1,040 Mcf

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Gravel			0	30	
Shale, grey			30	153	
Sand			153	206	
Shale			206	290	
Shale			290	540	
Sand			540	1160	
Shale			1160	1200	
White Sand			1200	1263	
Shale			1263	1490	
Lime			1490	1680	
Sand			1680	2025	
Shale			2025	4860	
Lime			4860	4960	
Sand			4960	5030	
Lime			5030	5260	
Sand			5260	5480	
Shale			5480	5509	
Lime			5509	5348	
Sand and Shale			5348	6212	
Shale			6212	6434	
Sand			6434	6507	
Shale			6507	6534	
Total Depth			Tuscarora @ T.D.	6534'	

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation
Well Operator

By:

Date:

L. L. L. L. L.
7-12-83

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



Well No. 20524
Farm Kanawha & Hocking Coal & Coke
API #47 - 039 - 3908
Date September 27, 1982

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /

(If "Gas", Production X / Underground storage / Deep X / Shallow /

LOCATION: Elevation: 748.34 Watershed: Left Fork of Witcher Creek
District: Malden County: Kanawha Quadrangle: Quick

WELL OPERATOR Columbia Gas Transmission Corp.
Address P. O. Box 1273
Charleston, WV 25325

DESIGNATED AGENT J. L. Weekley
Address P. O. Box 1273
Charleston, WV 25325

OIL AND GAS

ROYALTY OWNER Kanawha & Hocking Coal & Coke
Address 700 Westgate Tower
Cleveland, Ohio 44100
Acreage 640

COAL OPERATOR Valley Camp Coal Co.
Address 2971 Dupont Avenue East
Shrewsbury, WV 25184

SURFACE OWNER Same as Royalty Owner
Address
Acreage

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Same as Royalty Owner
Address

FIELD SALE (IF MADE) TO:

NAME
Address

NAME
Address

COAL LESSEE WITH DECLARATION ON RECORD:
NAME Same as Coal Operator
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:

NAME Homer H. Dougherty
Address Linden Route Box 3A
Looneyville, WV 25259
Telephone 927-4591

RECEIVED
SEP 27 1982

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated 4/24, 1912 to the undersigned well operator from

(If said deed, lease, or other contract has been recorded:)

Recorded on , 19 , in the office of the Clerk of County Commission of

Kanawha County, West Virginia, in 20 Book at page 311. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Columbia Gas Transmission Corporation
Well Operator

By:

Its: Director of Special Projects

BLANKET BOND

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Ray Resources

Address 2101 Washington St., E.

Charleston, WV 25311

GEOLOGICAL TARGET FORMATION Tuscarora

Estimated depth of completed well 6500 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, feet; salt, feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes X / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKER'S
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	20"			X		30'		To surface	Kinds
Fresh water	13-3/8"			X		160'		To surface	
Coal	9-5/8"			X		2010'		To surface	Sizes
Intermed.	7"			X		4965'			
Production	4-1/2"			X		6500'			Depths set
Tubing	2-3/8"			X		6500'			
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 6-12-83

BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19 .

By:

Its: