



KING LAND CO.

QUEEN LAND CO.

BENCH MARK

"D" CUT IN LARGE ROCK ABOUT 2 MILES UP MORRIS CREEK. 145' WEST OF MORRIS CREEK ROAD & 40' NORTH OF SMALL BRANCH
ELEV. 801.00'

STAKE IN FIELD 70' EAST OF ROAD LG. ELM BEARS N87°30'W-49'

LG. SPRUCE PINE 80' EAST OF MORRIS CRK. BETWEEN LG. W.O. & BEECH.

3.385
3.42w

067.57.5' ^{15'} _{15'}
38° 27' 30" 46s 3.37
81° 17' 30" 1.07w 3.33
sch

- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company COLUMBIA GAS TRANSMISSION CORP.
 Address CHARLESTON, WEST VIRGINIA
 Farm KING LAND COMPANY
 Tract _____ Acres 5245 Lease No. 4592
 Well (Farm) No. _____ Serial No. 9801
 Elevation (Spirit Level) 861.78'
 Quadrangle GLENDENIN, W.VA. NE
 County KANAWHA District BIG SANDY
 Engineer Adrian E. Edgeman
 Engineer's Registration No. 2330
 File No. 78-65 Drawing No. _____
 Date FEB. 22, 1973 Scale 1"=400'

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

WELL LOCATION MAP
FILE NO. Kan-2623

+ 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.

Deep Well

6-6 Clendenin (220) Deep well

APR 2 1973



RECEIVED

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION
 WELL RECORD

- Rotary
- Spudder
- Cable Tools
- Storage

AUG 2 1973

Quadrangle Clendenin
 Permit No. KAN 2623

Oil or Gas Well Gas (KIND)

Company Columbia Gas Transmission Corporation
 Address Charleston, W. Va.
 Farm King Land Company Acres 5245
 Location (waters) Morris Creek
 Well No. 9801 Elev. 861.78'
 District Big Sandy County Kanawha
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced June 19 1973
 Drilling completed June 28 1973
 Date Shot 6/29/73 From 3680 To 5281
 With _____
 Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume small Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS) _____
 WELL ~~ENCOUNTERED~~ ^{Shot} (DETAILS) W/17,100# of 5" x 10' Dupont Gelatin
 RESULT AFTER TREATMENT (Initial open Flow or bbls.) 215 MCF
 ROCK PRESSURE AFTER TREATMENT 590 lb. HOURS _____
 Fresh Water _____ Feet Salt Water _____ Feet
 Producing Sand Devonian Sand-shale Depth 5240 - 5328 T.D.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16. 13"	35'	35'	
13. 9"	356'	356'	Size of
10. 7"	1908'	1908'	
8 1/4. 2"	5208'	5208'	Depth set
6 3/4			
5 3/16			
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
 CASING CEMENTED 7" SIZE 1983' No. Ft. _____ Date _____
 Amount of cement used (bags) 385 sac
 Name of Service Co. Halliburton
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay-Shale			0	38			
Sand-Shale			38	315			
Shale			315	320			
Sand			320	330			
Sand-Shale			330	362			
Shale			362	411			
Coal			411	415			
Shale			415	715			
Sand			715	843			
Salt Sand			843	1400			
Shale			1400	1425			
L Lime			1425	1500			
Shale			1500	1510			
Big Lime			1510	1640			
Red Rock			1640	1710			
Shale-Sand			1710	1908			
Shale - Devonian shale			1908	5220			
Lime			5220	5240			
T. D.				5240			

461
 Logger's TD 5328

top Dev. Sh. 2075
 Onond. ? 5282 - T.D.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
MAR 21 1973
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 March 20, 1973

Surface Owner King Land Company
Address -
Mineral Owner Kanawha Valley Bank, Trustee
for Marion S. Swartz
Address P.O. Box 1793 Charleston, W.Va. 25326
Coal Owner Kanawha Valley Bank, Trustee
for Marion S. Swartz
Address P. O. Box 1793 Charleston, W.Va. 25326
Coal Operator Not Operated
Address -

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273 Charleston, W.Va. 25325
Farm King Land Company Acres 5245
Location (waters) Morris Creek of Left Fork
Well No. 9801 7 Elk Riv. Elevation 861.78'
District Big Sandy County Kanawha
Quadrangle Clendenin

INSPECTOR TO BE NOTIFIED Fred Burdette
Cicerone Rt. Box 190
Sissonville, WV. PH: 984-9263

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 July 21, 1973.

Robert L. Forder
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 4 1906 by The King Land Company made to South Penn Oil Company and recorded on the 20th day of July 1906, in Kanawha County, Book 14 1/2 Page 183

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.

Very truly yours, COLUMBIA GAS TRANSMISSION CORP.

(Sign Name) By Adrian Friedman
Supt., Well Operator Civil Engineering Dept.

Address
of
Well Operator

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 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

Survey

KAN-2623

PERMIT NUMBER

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

PROPOSED WORK ORDER TO X DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Ray Resources NAME Walter Chapman
 ADDRESS Commerce Square, Charleston ADDRESS P.O. Box 610 Clendenin, W.Va. 25045
 TELEPHONE 344-8393 TELEPHONE 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 5250' ROTARY X CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL GAS X 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 13-3/8"	30'	30'	Surface
9 - 5/8	360'	360'	Surface
8 - 5/8			
7	1880'	1880'	1000'
5 1/2			
4 1/2	5250'	5250'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER 955 FEET 1100
 APPROXIMATE COAL DEPTHS 310'
 IS COAL BEING MINED IN THE AREA? No BY WHOM? NA

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