

LAT. 39°47'24"
 LONG. 80°34'47"
 F. B. 1779N P. 48-49
 MAP 4404/532

NOTE: THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY.

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION BM E127
 770.09'

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) Neil E. Lyon 12/1/93
 R.P.E. _____ L.L.S. 2945

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE NOV. 9, 19 93
 OPERATOR'S WELL NO. L-1836
 API WELL NO. 47-057-00390-7
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1209' WATERSHED BIG RUN
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE CAMERON SE
 SURFACE OWNER HERBERT MATTHEWS EST. ACREAGE 40
 OIL & GAS ROYALTY OWNER SEE PLAT LEASE ACREAGE 40
 LEASE NO. 3002109 AUG 19 1994
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) RECONDITION

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Big Run ESTIMATED DEPTH 2190 clean out 57'
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED Richard J. Gatz

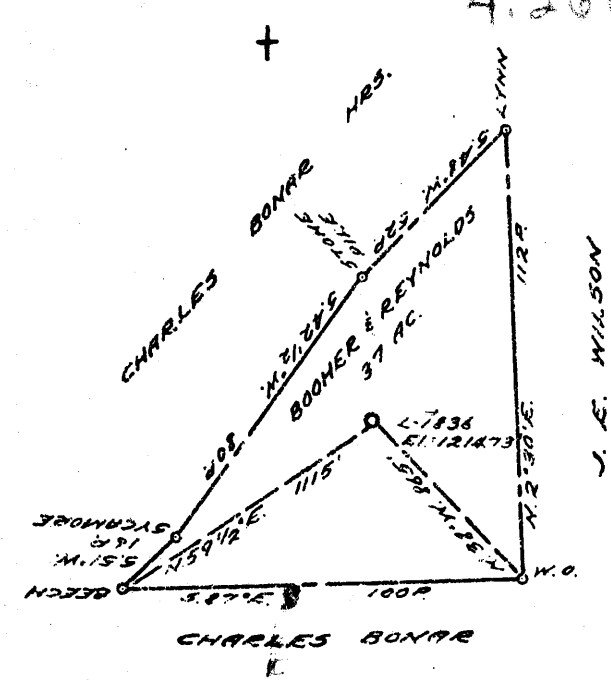
FORM IV-6 (6-78)

COUNTY NAME
 PERMIT

0 1 2 3 LATITUDE 39 0 50 1

-1
-2
-3 LONGITUDE 80 0 30 1

3.035
4.26W



COAL OWNED BY _____
RECONDITION _____
NEW LOCATION.....
DRILL DEEPER.....
ABANDONMENT.....

0-25-29

COMPANY THE MANUFACTURERS LIGHT & HEAT
ADDRESS 800 UNION TRUST BLDG. PGM. PA.
FARM BOOMER & REYNOLDS
TRACT _____ ACRES 40 LEASE No. 2189
WELL (FARM) No. 1 SERIAL No. 1836
ELEVATION (SPIRIT LEVEL) 1214.73
QUADRANGLE CAMERON SE
COUNTY MARSHALL DISTRICT LIBERTY
ENGINEER Robert M. Heill
ENGINEER'S REGISTRATION No. 361-E (J.F.)
FILE No. _____ DRAWING No. Y-25-173
DATE 6 MAY, 1960 SCALE 1" = 800'

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

WELL LOCATION MAP

FILE No. MARS-390-R

+ 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.

9-0 25

MAY 23 1996

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: MATHEWS, HERBERT ETAL. Operator Well No.: 1836

LOCATION: Elevation: 1,209.00 Quadrangle: CAMERON

District: LIBERTY County: MARSHALL
Latitude: 620 Feet South of 39 Deg. 47Min. 30 Sec.
Longitude 10620 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION
P.O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: RANDAL MICK
Permit Issued: 08/17/94
Well work Commenced: 11/3/94
Well work Completed: 11/8/94
Verbal Plugging
Permission granted on: N/A
Rotary Cable Rig
Total Depth (feet) 2153
Fresh water depths (ft)
NOT RECORDED BY DRILLER.
Salt water depths (ft)
NOT RECORDED BY DRILLER.
Is coal being mined in area (Y/N)? N
Coal Depths (ft): PGH. COAL 838' - 845'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 ³ / ₄ " OD	210'	210'	148
8 ⁵ / ₈ " OD	1235'	1235'	295
7" OD	2004'	2004'	236
4 ¹ / ₂ " OD	2185'	2185'	158

OPEN FLOW DATA

Producing formation BIG INJUN SAND Pay zone depth (ft) 2080' - 2100'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 5,690 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 584 psig (surface pressure) after 720 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COLUMBIA GAS TRANSMISSION CORP.

By: Ronald A. Schuff
Date: MAY 3, 1996

MAY 24 1996



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle CAMERON

WELL RECORD

STORAGE

Permit No. MARS-390-R

Oil or Gas Well X GAS
(KIND)

Company The Manufacturers Light and Heat Co.
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm Booher and Reynolds Acres 40
Location (waters) _____
Well No. L-1836 Elev. 1214.73'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced June 21, 1960
Drilling completed August 4, 1960
Date Shot 8/8/60 From 2004' To 2196'
With Orifice Well Tester
Open Flow 40/10ths Water in 1/2 Inch
/10ths Merc. in _____ Inch
Volume 12,036 MCF Cu. Ft.
Rock Pressure 35 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10 3/4"	210'	210'	Size of
8 5/8"	880'	1235'	
7"	1983'	2004'	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 840 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Thick/Thin/Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
✓Pittsburgh Coal		7	840	847			
✓Big Dunkard Sand		76	1334	1410			
✓Maxton Sand		40	1835	1875			
✓Lower Maxton Sand		8	1942	1950			
✓Big Lime			1954				
✓Big Injun Sand				2196	Not Drilled	Through	
Old 7" Casing			1983	2004			
Set New 7" at				1983			
TOTAL DEPTH				2196		1954 1215 739	

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Issued 08/17/94
Expires 08/17/96

7/21/94

1) Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 (4) 278

2) Operator's Well Number: 1836 3) Elevation: 1209'

Well type: (a) Oil / or Gas /

(b) If Gas: Production / Underground Storage /
Deep / Shallow /

19520

EXISTING
~~Proposed~~ Target Formation(s): BIG INUN SAND

EXISTING
~~Proposed~~ Total Depth: 2196 feet

Approximate fresh water strata depths: 150'

8) Approximate salt water depths: 1013'

9) Approximate coal seam depths: 420'-424', 741'-745', 820'-828'

10) Does land contain coal seams tributary to active mine? Yes / No /

11) Proposed Well Work: KILL WELL; CLEAN OUT TO ORIGINAL T.D.; INSTALL NEW FLANGED API 7"X4-1/2" WELLHEAD; PERFORATE AND FRACTURE BIG INJUN SAND.

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	10-3/4"	H	32.75	210'	210'	125 SKS.
Coal	8-5/8"	J	24	1235'	1235'	250 SKS.
Intermediate	7"	J	20	2004'	2004'	200 SKS.
Production	4-1/2"	K	11.6		2196'	150 SKS.
Tubing						
Liners						

PACKERS : Kind NONE
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

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

00393907
25

1) Date: 07/07/94
2) Operator's well number
1836
3) API Well No: 47 - 051 - 00390 - F
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>HERBERT MATHEWS</u>
Address <u>RD 5, BOX 72</u>
<u>CAMERON, WV 26033</u></p> <p>(b) Name <u>DONALD MACK QUIGLEY</u>
Address <u>RD 5, BOX 238</u>
<u>CAMERON, WV 26033</u></p> <p>(c) Name <u>CLARICE RIED</u>
Address <u>RD 5, BOX 214</u>
<u>CAMERON, WV 26033</u></p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>CONSOLIDATED COAL CO.</u>
Address <u>1800 WASHINGTON RD.</u>
<u>PITTSBURGH, PA 15241</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>RANDAL MICK</u>
Address <u>111 BLACKSHERE DRIVE</u>
<u>MANNINGTON, WV 26582</u>
Telephone (304)- <u>986-5680</u></p> | |

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

_____ 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)

_____ 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 GAS TRANSMISSION CORP.
By: [Signature]
Its: DIRECTOR, DRILLING & MAINTENANCE
Address P. O. BOX 1273
CHARLESTON, WV 25325-1273
Telephone 304-357-3034

OFFICIAL SEAL
MARY MARIE CLENDENIN
NOTARY PUBLIC, STATE OF WEST VIRGINIA
MY COMMISSION EXPIRES 03 -- 22 -- 95
P. O. BOX 1273
CHARLESTON, WV 25325

subscribed and sworn before me this 19th day of July, 1994

[Signature] Notary Public
My commission expires 3/22/95

SURFACE OWNER(S) TO BE SERVED: CONTINUED

(D) NAME: DONALD REX QUIGLEY
RD 5, BOX 214
CAMERON, WV 26033

051-390