

LAT. 39° 41' 48"
 LONG. 80° 41' 01"
 F.B. 1770N PG. 32 (R.C.F.)
 MAP 4392/524 17
 GEN. PROJ. ACT. TCC
 183 - 2000 - W2216- 2801

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

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION BM 1106' AT
 WV RT. 89 - WEST, W.VA.

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) Edward Field
 R.P.E. _____ L.L.S. 798



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE AUGUST 3 1992
 OPERATOR'S WELL NO. L-4268
 API WELL NO. 47-103-144R

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1345' WATER SHED BLAKE FORK
 DISTRICT PROCTER 7 COUNTY WETZEL
 QUADRANGLE WILEYVILLE

SURFACE OWNER BRUCE D. & JO ALICE MAY LORENZ ACREAGE 36.5
 OIL & GAS ROYALTY OWNER JOSEPH D. & JOSEPH S. DOPLER LEASE ACREAGE 37
 LEASE NO. 3026466

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

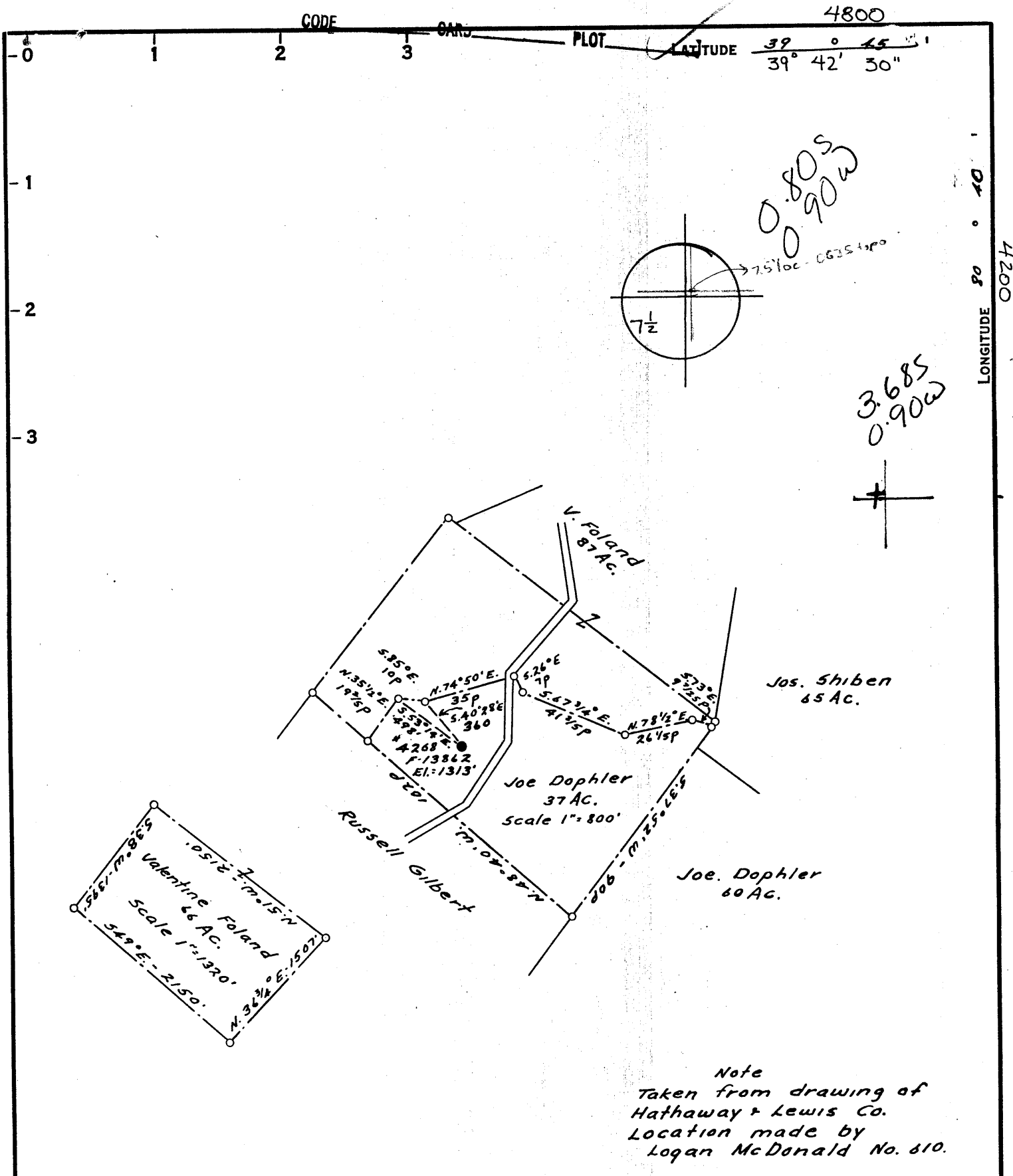
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION _____ ESTIMATED DEPTH 2161
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT ROBERT C. WEIDNER
 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

SEP 8 1992

FORM WV-8 068065 HALLS, INC.

WETZEL COUNTY NAME PERMIT 144R

06600 9-0 175 Cameron-Garner (023)



COAL OWNED BY _____

Storage

NEW LOCATION.....

DRILL DEEPER.....

ABANDONMENT.....

COMPANY COLUMBIA GAS TRANSMISSION 2175

ADDRESS P.O. Box 1273 CHARLESTON, WV 25314

FARM Joe Daphler

TRACT _____ ACRES 37 LEASE No. 26466

WELL (FARM) No. 1 SERIAL No. 4268

ELEVATION (SPIRIT LEVEL) 1313' 681

QUADRANGLE Littleton 15 WILEYSVILLE 7 1/2

COUNTY Wefzel DISTRICT Proctor 7

ENGINEER See Note Above

ENGINEER'S REGISTRATION No. _____

FILE No. _____ DRAWING No. Y-15-16

DATE 22 June 54 SCALE 1" = 800'

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

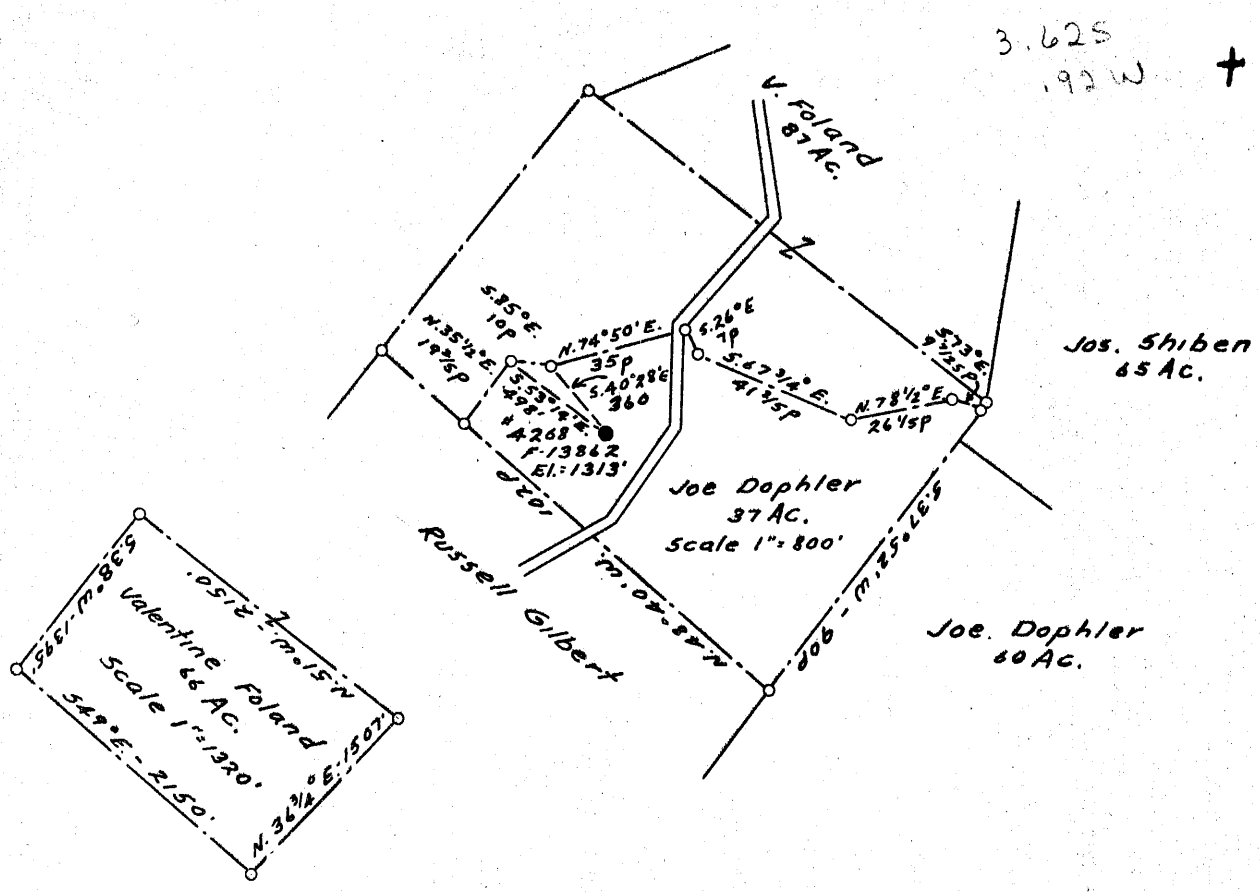
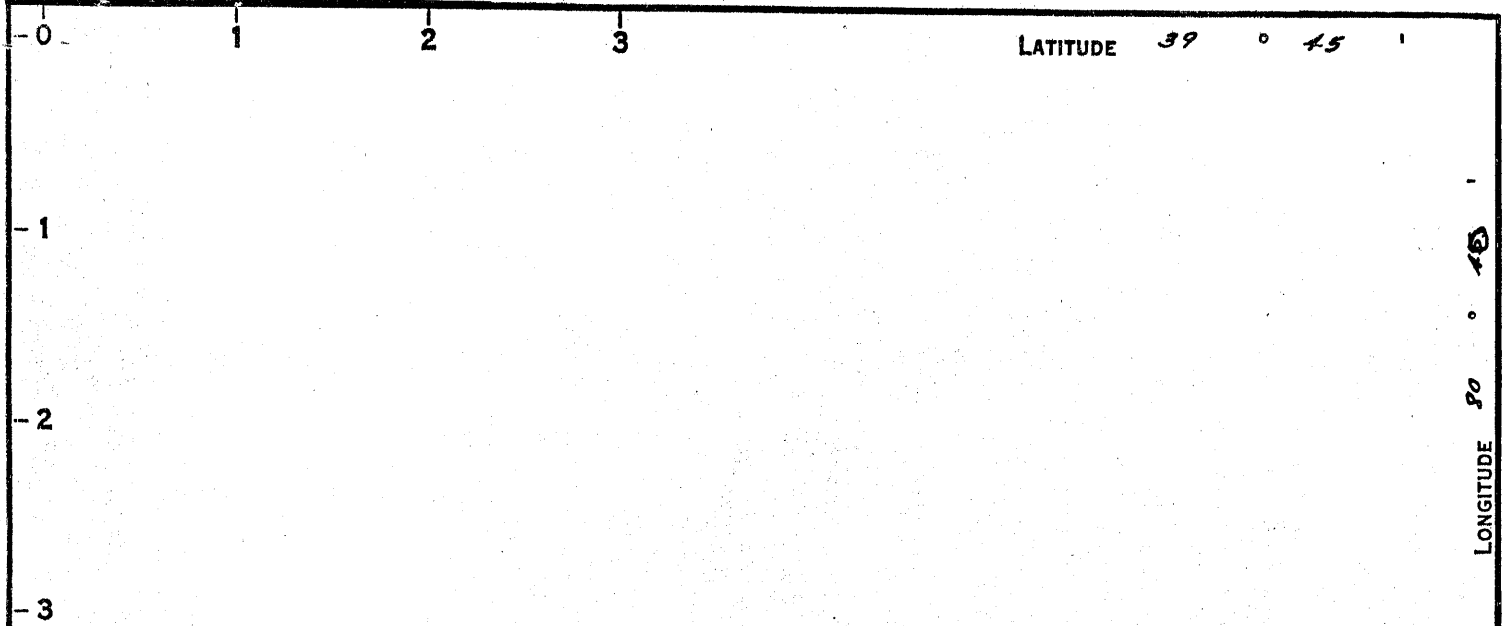
WELL LOCATION MAP

FILE No. Wet-144-Redd

+ 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.

JUL 21 1966



Note
 Taken from drawing of
 Hathaway & Lewis Co.
 Location made by
 Logan McDonald No. 810.

abd July 42

COAL OWNED BY _____
 Storage

NEW LOCATION.....

DRILL DEEPER.....

ABANDONMENT.....

COMPANY The Manufacturers Light & Heat Co

ADDRESS 800 Union Trust Bldg. Pgh. Pa.

FARM Joe Daphler

TRACT _____ ACRES 37 LEASE NO. 26466

WELL (FARM) NO. 1 SERIAL NO. 4268

ELEVATION (SPIRIT LEVEL) 1313'

QUADRANGLE Littleton

COUNTY Wetzel DISTRICT Proctor

ENGINEER See Note Above

ENGINEER'S REGISTRATION NO. _____

FILE NO. _____ DRAWING NO. Y-15-16

DATE 22 June 54 SCALE 1" = 800'

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

WELL LOCATION MAP

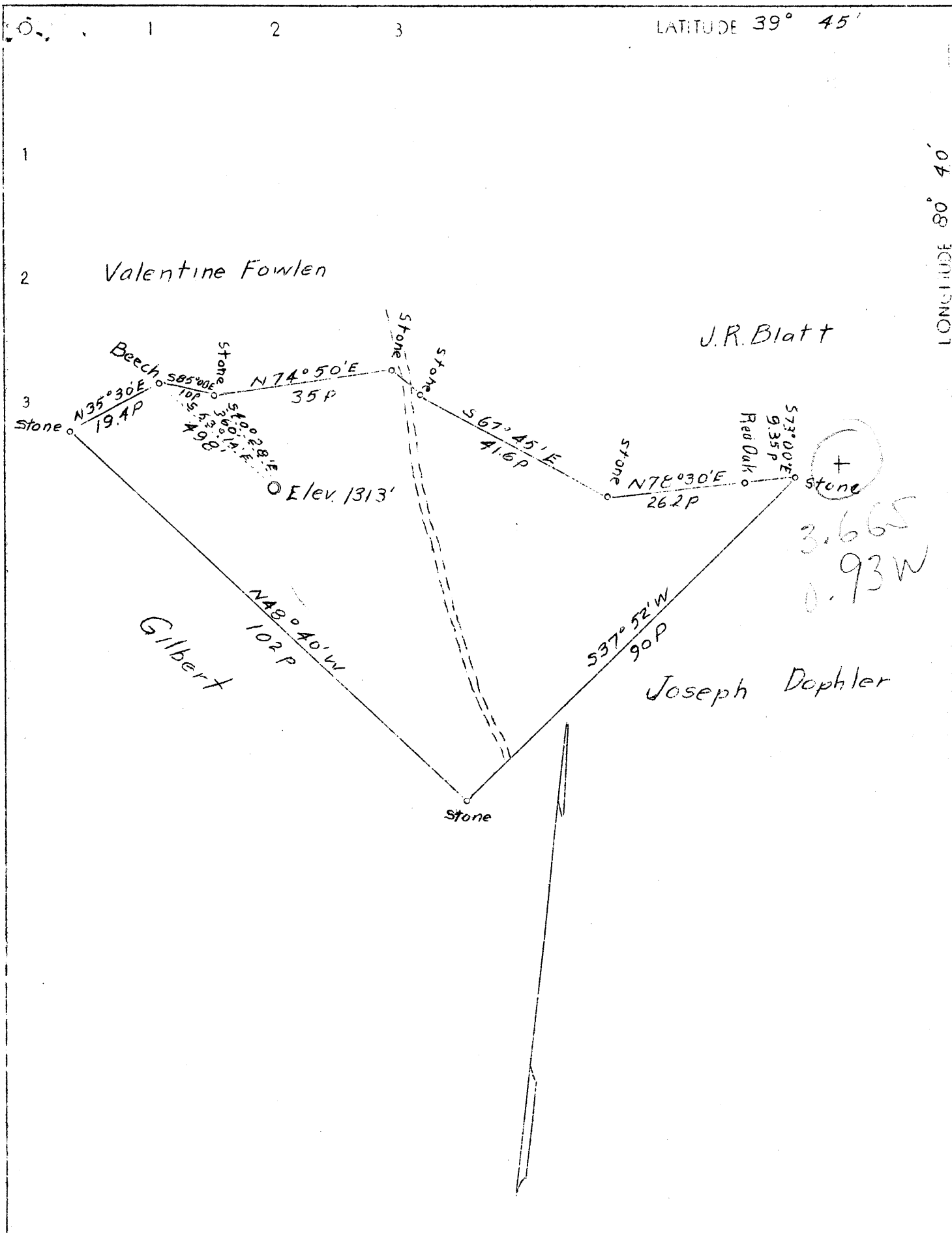
FILE NO. Wet-144-Redrill

+ 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.

LATITUDE 39° 45'

LONGITUDE 80° 40'



Company Hathaway & Lewis
 Address Grantsville, W. Va.
 Farm Joseph Daphler
 Tract One Acres 36 Lease No
 Well (Farm) No. One Serial No. 7-1
 Quadrangle Littleton NW
 County Wetzel
 District Proctor
 Engineer Logan McDonald
 Engineer's Registration No. 610
 File No. _____ Drawing No. _____
 Date 11-17-36 Scale 400' - 1"

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 Charleston

WELL LOCATION MAP

File No WET-144 STONE

+ Denotes location of well on U. S. 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.

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

Well Operator's Report of Well Work

Farm name: LORENZ, BRUCE

Operator Well No.: L-4268

LOCATION: Elevation: 1345.00 Quadrangle: WILEYVILLE

District: PROCTOR County: WETZEL
Latitude: 4100 Feet South of 39 Deg. 42Min. 30 Sec.
Longitude 4825 Feet West of 80 Deg. 40 Min. 0 Sec.

RECEIVED
Office of Oil & Gas
DEC 31 92
WV Division of
Environmental Protection

Company: COLUMBIA GAS TRANSMISSION
1700 MacCORKLE AVENUE S.E.
CHARLESTON, WV 25314-0000

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
10-3/4"	329'	329')	
8-5/8"	1630'	1630')	1880 SX
7"	2011'	2011')	
4-1/2"		2259'	245 SX

Agent: ROBERT C. WEIDNER

Inspector: RANDAL MICK
Permit Issued: 09/02/92
Well work Commenced: 09/14/92
Well work Completed: 10/05/92
Verbal Plugging
Permission granted on: N/A
Rotary Cable Rig
Total Depth (feet) 2158'
Fresh water depths (ft) NONE
Salt water depths (ft) 1890'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1060', 1144', 1697'

OPEN FLOW DATA

Producing formation MAXTON SAND Pay zone depth (ft) 2142'
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
(NO TESTS TAKEN)
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.

Reviewed TMG
Recorded CH

By: [Signature]
Date: DEC 22 1992

MAY 24 1993

Activity

- 9/14/92: Atlas Wireline perforated the Maxton Sand 2142'-2152' (PDC log) with 2 holes per ft.; interval now has 6 holes/ft. shot density.
- 9/16/92: Halliburton foam fractured interval with 75 quality foam; 50,000# 20/40 sand; 202 bbl. water; 387,000 SCF nitrogen; 15 BPM rate; 2500 psig avg. treating pressure; I.S.I.P: 1506 psig.

Note: Geological well log remains the same as previously submitted.



RECEIVED
NOV 12 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 11-6-86
Operator's Well No. L-4268
Farm J. Dopler
API No. 47 - 103 - 0144D

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 x / Deep ___ / Shallow x /)

LOCATION: Elevation: 1343 Watershed Blake Fork of Lynn Camp Run
District: PROCTOR County WETZEL Quadrangle WILEYVILLE

COMPANY COLUMBIA GAS TRANSMISSION CORP.

ADDRESS CHARLESTON, W. VA. 25314

DESIGNATED AGENT ROBERT C. WEIDNER

ADDRESS CHARLESTON, W. VA. 25314

SURFACE OWNER T., W. & B. REYNOLDS

ADDRESS NEW MARTINSVILLE, W. VA.

MINERAL RIGHTS OWNER 2/ SEE REVERSE SIDE

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK MIKE

UNDERWOOD ADDRESS SALEM, W. VA.

PERMIT ISSUED JULY 16, 1986

DRILLING COMMENCED AUG. 28, 1986

DRILLING COMPLETED SEPT. 4, 1986

IF 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.			
13-10"	329	329	1880 sks
9 5/8			
8 5/8	1630	1630	
7	2011	2011	
5 1/2			
4 1/2	2259	2259	245 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION MAXTON Depth 2140 feet G.L.

Depth of completed well 2224' feet Rotary x / Cable Tools

Water strata depth: Fresh NONE feet; Salt 1890 feet

Coal seam depths: 1060' & 1144' & 1697' Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation MAXTON Pay zone depth 2142 feet G.L.

Gas: Initial open flow ___ Mcf/d Oil: Initial open flow NONE Bbl/d

Final open flow (1,280) Mcf/d Final open flow NONE Bbl/d

Time of open flow between initial and final tests ___ hours

Static rock pressure 667 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation NONE 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

(Continue on reverse side)

NOV 17 1986

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 DRILLED 6 1/4" HOLE TO 2258'. RAN 4 1/2" K-55, 11.6# CASING TO T.D. WITH A FLOAT
 SHOE ON THE BOTTOM AND A LATCH DOWN BAFFLE AND PLUG AT 2230'. THERE IS 6 FEET OF
 CEMENT ON TOP OF THE PLUG. P.B.T.D. = 2224' G.L. PERFORATED THE MAXTON SAND FROM
 2142' TO 2152' G.L. WITH 4 SHOTS/FOOT.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
MAPLETOWN COAL		<u>1</u> /	1060	1066	
PITTSBURGH COAL			1144	1151	
BIG DUNKARD			1586	1667	
FREEPORT COAL			1697	1703	
GAS SAND			1717	1771	
FIRST SALT			1873	1894	WATER AT 1890' *
SECOND SALT			1950	2012	
THIRD SALT			2016	2056	
RAVENCLIFF?			2083	2100	
MAXTON			2140	2155	

*FROM ORIGINAL WELL RECORD

1/ ALL GEOLOGIC FORMATIONS
 WERE PICKED FROM THE GAMMA
 RAY LOG RUN IN 1954.

2/ COAL OWNER:
 CONOCO INC.
 c/o CONSOLIDATION COAL CO.
 1800 WASHINGTON ROAD
 PITTSBURGH, PA. 15241

OIL AND GAS OWNER:
 JOSEPH DOPLER
 3984 36th ST. N.W.
 CANTON, OHIO 44718

(Attach separate sheets as necessary)

COLUMBIA GAS TRANSMISSION CORP.

Well Operator

By: RC Wender

Date: NOV 10 1986

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
 those encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rittleton

WELL RECORD

Permit No. WET-144-R

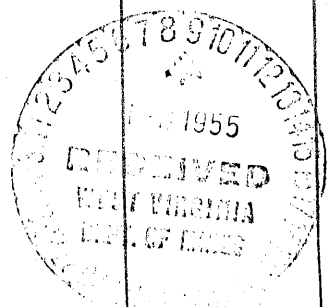
Oil or Gas Well Stor.
(KIND)

Company THE MANUFACTURERS LIGHT AND HEAT COMPANY
Address 800 Union Trust Bldg., Pgh., Penna.
Farm Joseph Dopler Acres 37
Location (waters) _____
Well No. 1-4268 Elev. 1313
District Proctor County Wetzel
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced February 26, 1953
Drilling completed April 12, 1954
Date Shot _____ From _____ To _____
With _____
Open Flow 5.3 /10ths Water in 3" Inch
_____ /10ths Merc. in _____ Inch
Volume 211.660 Cu. Ft.
508.691
Rock Pressure 104 lbs. 18 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10		329'19"	Size of
8 1/4		1653'11"	
7		2050'2"	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 _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Drilled to				2174	Schlumberger	Measurement	
Filled back with cement				2159			
Maxon Sand			2144	2159			
Total Depth				2159			
NOTE: 10" 8" and 7" casing all cemented in							



WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION

W E L L R E C O R D

Permit No. Wet-144

Gas Well

Littleton Quad.

CASING & TUBING

Company	Hathaway & Lewis	5-3/16	2060
Address	Grantsville, W. Va.	2	2155
Farm	Joseph S. Dopler ACRES -		
Location	Blake Run of Lynn Camp		
Well No.	1 ELEV. - 1313'		
District	Proctor - Wetzel County		
Surface	Joseph S. Dopler, Martins Ferry, Ohio		
Mineral	-		
Commenced	-		
Completed	-		
Open Flow	-		
Volume	-		
Rock Pressure	-		
Oil	-		
Water	-		

FORMATION	Color	H ₂ O	Top	Base	RESULT	FORMATION	Color	H ₂ O	Top	Base	RESULT
Soil			0	9		Slate	white		1540	1560	
Sand			9	18		Rock	red		1560	1575	
Slate	white		18	30		Lime			1575	1580	
Rock	red		30	45		Slate	black		1580	1590	
Lime			45	60		Slate	white		1590	1625	
Slate	white		60	75		Rock	red		1625	1635	
Lime			75	110		Sand B. D.			1635	1695	
Rock	red		110	120		Slate	white		1695	1705	
Lime			120	230		Slate	black		1705	1712	
Slate			230	275		Sand Gas Sand			1712	1765	
Rock	red		275	330		Lime			1765	1785	
Lime			330	345		Slate			1785	1815	
Rock	red		345	370		Sand			1815	1840	
Lime			370	390		Slate			1840	1880	
Rock	red		390	415		Sand IS Salt			1880	1900	W 1890
Lime			415	440		Lime			1900	1935	
Slate	white		440	550		Slate			1935	1985	
Lime			550	605		Sand Salt			1985	2015	
Slate			605	710		Slate			2015	2060	
Lime			710	770		Lime			2060	2109	
Sand			770	840		Sand Mixture			2109	2155	
Lime			840	875		Total Depth				2155	
Slate			875	900							
Lime			900	940							
Slate	blk		940	965		Gas 2141-2154					
Rock	red		965	970							
Lime			970	1060							
Mapletown Coal			1060	1066							
Lime			1066	1142							
Pittsburgh Coal			1142	1144							
Slate	white		1144	1160							
Sand			1160	1180							
Rock	red		1180	1200							
Lime			1200	1210							
Rock	red		1210	1220							
Lime			1220	1240							
Slate			1240	1280							
Rock	red		1280	1300							
Lime			1300	1325							
Rock	red		1325	1335							
Lime			1335	1370							
Rock	red		1370	1390							
Slate	white		1390	1440							
Slate	black		1440	1460							
Lime			1460	1490							
Rock	red		1490	1510							
Slate	black		1510	1540							

1313
1000
233
1313
144
171

2060
95
2155
1313
1442

2250
1313
937

AUG 07

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

Expires 9/2/94

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 (7) 680
- 2) Operator's Well Number: L-4268 3) Elevation: 1343
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): MAXTON SAND 325
- 6) Proposed Total Depth: 2158' feet
- 7) Approximate fresh water strata depths: none
- 8) Approximate salt water depths: 1890'
- 9) Approximate coal seam depths: 1060', 1144', 1697'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Fracture the Maxton Sand to increase deliverability.
- 12)

CASING AND TUBING PROGRAM

Fracturing Well

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	10-3/4"	-	40.5	329'	329'	1880 sx.
Coal	8-5/8"	-	24 & 25.55	1630'	1630'	
Intermediate	7"	-	20	2011'	2011'	
Production	4-1/2"	K	11.6		2259'	245 sx.
Tubing						
Liners						

PACKERS : Kind none
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

00 1505 37

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

- 1) Date: 07/27/92
- 2) Operator's well number
L-4268
- 3) API Well No: 47 - 103 - 0144-D - FRAC
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>Bruce Lorenz</u>
Address <u>RD 1, Box 316B Sleepy Hollow Road, Jeanette, PA 15644</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>DuPont Energy Coal Holdings, Inc.</u>
Address <u>Consol Plaza, 1800 Washington Rd. 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>Rt. 3, Box 248 Weston, WV 26452</u>
Telephone (304)- <u>269-2335</u></p> | |

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

Storage lease will be omitted

_____ Included is the lease or leases or other continuing contract of 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)

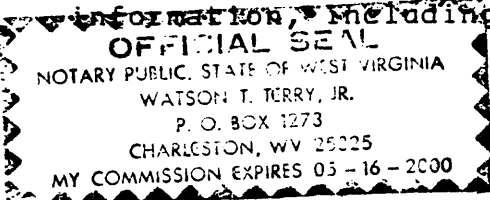
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ 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 GAS TRANSMISSION CORP.
By: [Signature]
Its: DIRECTOR, DRILLING & MAINTENANCE
Address P. O. BOX 1273 CHARLESTON, WV 25325-1273
Telephone 304-357-2459

Subscribed and sworn before me this 6th day of August, 1992

My commission expires May 16, 2000 [Signature] Notary Public

FORM WW-2(B) FILE COPY
 (Obverse)
 7/85
RECEIVED
 JUN 23 1986



1) Date: _____, 19____
 2) Operator's Well No. L-4268
 3) API Well No. 47-103-0144-D
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DEPT. OF ENERGY
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage X / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1343' Watershed: Blake Fork of Lynn Camp Run
 District: Proctor 175 7 County: Wetzel Quadrangle: Wileyville, W. Va. C 80
- 6) WELL OPERATOR Columbia Gas Trans CODE: 10450 7) DESIGNATED AGENT R. C. Weidner
 Address P. O. Box 1273 Address Columbia Gas Transmission Corp.
Charleston, W. Va. 25314 Charleston, W. Va. 25314
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Donald Ellis Mike Underwood Name Pool Well Servicing Company
 Address 2604 Crabapple Lane Address P. O. Box 28
Fairmont, WV 26554 Ripely, W. Va. 25271
- 10) PROPOSED WELL WORK: Drill _____ / Drill deeper X / Redrill X / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) Set casing through formation, cement & perforate
- 11) GEOLOGICAL TARGET FORMATION, Maxton 325
 12) Estimated depth of completed well, 2260 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, 1890 feet.
 14) Approximate coal seam depths: 1144 Is coal being mined in the area? Yes _____ / No X /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well			
Conductor *	10 3/4	Unk.	40.5	X		329	329	1880 sks	Kinds	
Fresh water								charged-no		
Coal							1144	record of	Sizes	
Intermediate *	8 5/8	Unk.	25.55	X		1630	1630	how much for		
Production *	7	Unk.	20	X		2011	2011	each string	Depths set	
Tubing	4 1/2	2K-55	11.6	X		2260	2260	245 SKS		
Line									Perforations:	
									Top	Bottom
									2142	2153

*Now Existing

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-103-0144-D Date July 16 19 86

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires July 16, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
<u>ASB</u>	<u>✓</u>	<u>AS</u>	<u>AS</u>	<u>1330.3684</u>	<u>AS</u>	<u>AS</u>	<u>M. U.</u>

NOTE: Keep one copy of this permit posted at the drilling location.

John H. Johnston
 Director, Division of Oil and Gas
by H. Argenta

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.