

O.G.: OKLA J. YOHO
 LAVONDA EMERY
 JACK R. HAMMERS
 M. A. WALTON
 MARY WALTON
 GEO. N. YOHO
 CLARENCE YOHO
 TONI J. MASON
 TWILA O. WHIPKEY

Jamil
 8/15/94

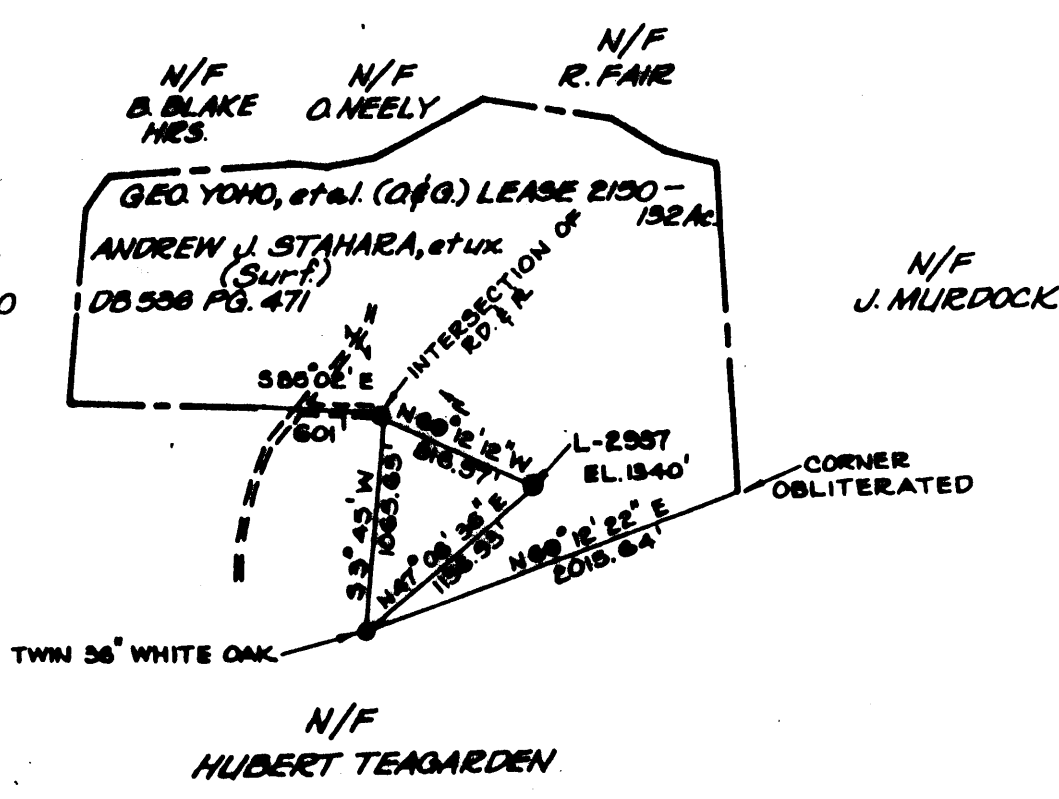
LATITUDE 39° 48'

TOPO. LOC. ⊕

0.42
 0.24

0.08 1/2 OF EQUIDISTANT

DEED - NORTH



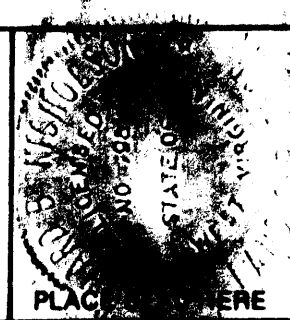
NOTE: SURVEY BEARINGS ARE DEED MERIDIAN.
 NO BUILDING WITHIN 300' OF WELL.

MAP 4956N
 528 E
 FB 1707-N PG. 55
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

0.42 S
 2.45 W

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. Δ STA.
 VALVE

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) *Edw. Nickl*
 R.P.E. 9956 L.L.S. 796



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 27, 1994
 OPERATOR'S WELL NO. L-2997
 API WELL NO. 47-051-007247

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1340' WATER SHED _____
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE WILEYVILLE - 7 1/2'
 SURFACE OWNER ANDREW J. STAHARA, ET UX. ACREAGE 192
 OIL & GAS ROYALTY OWNER GEORGE N. YOHO, ET AL. LEASE ACREAGE 192
 LEASE NO. 2150
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONSTRUCTION

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION MAXTON ESTIMATED DEPTH 2048'-2058'
 WELL OPERATOR COLUMBIA GAS TRANSMISSION DESIGNATED Richard L. Coty
 ADDRESS P.O. BOX 498 WASHINGTON PA 15301 ADDRESS Same Address
 PH. 304-357-3034

AUG 26 1994

MARSH COUNTY NAME PERMIT 967

Q & G: OKLA J. YOHO
 LAVONDA EMERY
 JACK R. HAMMERS
 M. A. WALTON
 MARY WALTON
 GEO. N. YOHO
 CLARENCE YOHO
 TONI J. MASON
 TWILA O. WHIPKEY

1250'
 LATITUDE 39° 45'

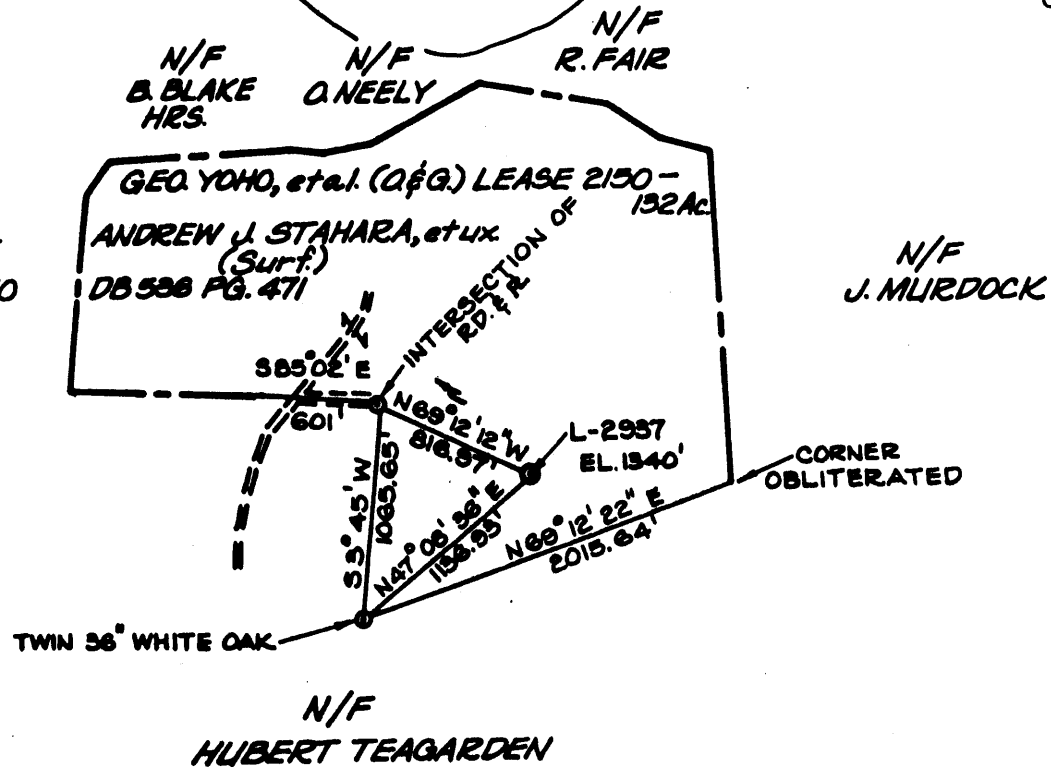
Janice
 19/1/92

TOPO. LOC.

0.42
 0.23

LONGITUDE 80° 57' 96"
 2200'

DEED - NORTH



This well was formerly MARS-367A

NOTE: SURVEY BEARINGS ARE DEED MERIDIAN. NO BUILDING WITHIN 300' OF WELL.

MAP 4996N
 528 E
 FB 1707-N PG. 35
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. Δ STA.
VALVE

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) *Andrew J. Stahara*
 R.P.E. 9986 L.L.S. 798



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 27, 1988
 OPERATOR'S WELL NO. L-2997
 API WELL NO. 47-051-0724-Frac
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1340' WATER SHED _____
 DISTRICT LIBERTY 4 COUNTY MARSHALL
 QUADRANGLE WILEYVILLE - 7 1/2'
 SURFACE OWNER ANDREW J. STAHARA, ET. UX. ACREAGE 132
 OIL & GAS ROYALTY OWNER GEORGE N. YOHO, ETAL. LEASE ACREAGE 132
 LEASE NO. 2150

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 _____
 WELL OPERATOR COLUMBIA GAS TRANSMISSION DESIGNATED AGENT R.A. SCHOFF
 ADDRESS P.O. BOX 498 WASHINGTON PA 15301 (75) ADDRESS P.O. BOX 498 WASHINGTON PA 15301

MARS-367
 COUNTY NAME
 PERMIT

SEP 8 1992

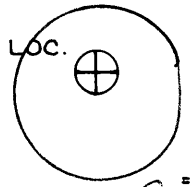
1250

O.G.G.: OKLA J. YOHO
LAVONDA EMERY
JACK R. HAMMERS
M. A. WALTON
MARY WALTON
GEO. N. YOHO
CLARENCE YOHO
TONI J. MASON
TWILA O. WHIPKEY

Janie 9/25/89

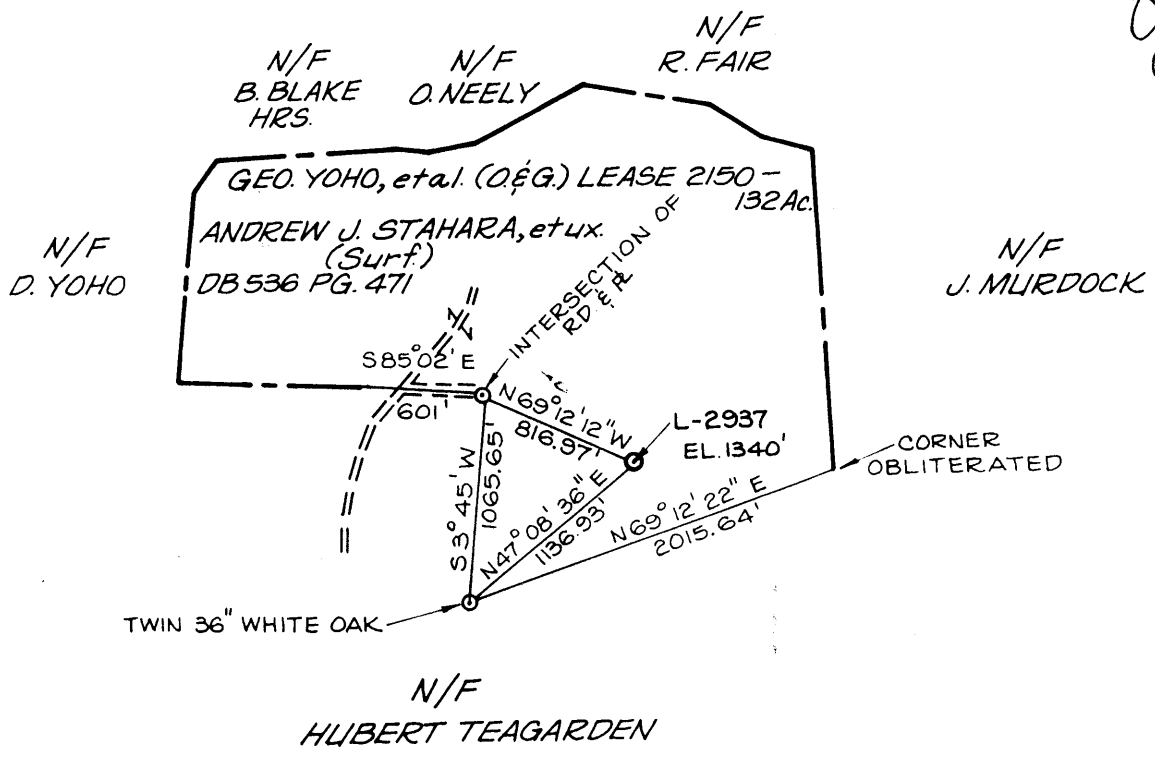
LATITUDE 39°45'

TOPO. LOC.



*0.425
0.24W*

LONGITUDE 80°37'30"



NOTE: SURVEY BEARINGS ARE DEED MERIDIAN. NO BUILDING WITHIN 300' OF WELL.

MAP 4396N
528 E
FB 1707-N PG.35
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

*0.425 } 15' loc.
2.46W }
Littleton nc*

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION U.S.G.S. STA.
"VALVE"

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 B. Nichols*
 R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE APRIL 27, 1989
 OPERATOR'S WELL NO. L-2937
 API WELL NO. 051 Was: 367-A
47 MARS. 0724-F
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1340' WATERSHED _____
 DISTRICT LIBERTY 4 COUNTY MARSHALL
 QUADRANGLE WILEYVILLE - 7 1/2' 681 Littleton 15' 2nc

SURFACE OWNER ANDREW J. STAHARA, ET. UX. ACREAGE 132
 OIL & GAS ROYALTY OWNER GEORGE N. YOHO, ETAL. LEASE ACREAGE 132
 LEASE NO. 2150

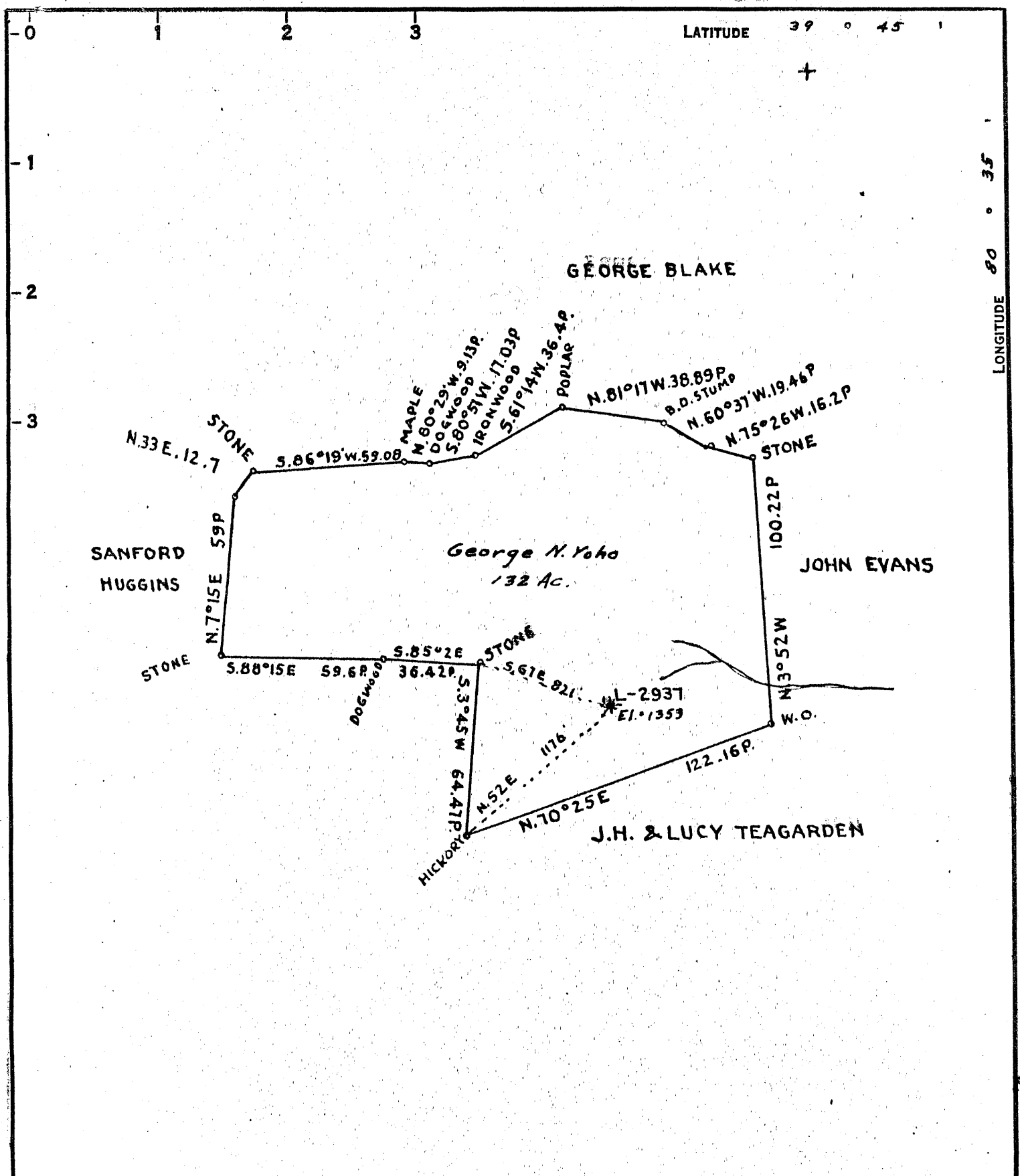
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONDITION

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Big Injnd ESTIMATED DEPTH 2400'
 WELL OPERATOR COLUMBIA GAS TRANSMISSION DESIGNATED AGENT R.A. SCHOFF
 ADDRESS P.O. BOX 498 WASHINGTON PA 15301 ADDRESS P.O. BOX 498 WASHINGTON PA 15301

SEP 29 1989

175

MARS. COUNTY NAME
367 PERMIT



COAL OWNED BY _____
Storage

NEW LOCATION.....

DRILL DEEPER.....

ABANDONMENT..... PARTIAL

COMPANY The Manufacturers Light & Heat

ADDRESS 800 Union Trust Bldg. Pgh. Pa.

FARM George N. Yoho

TRACT _____ ACRES 132 LEASE NO. 21500

WELL (FARM) NO. 1 SERIAL NO. 2937

ELEVATION (SPIRIT LEVEL) 1353'

QUADRANGLE Littleton

COUNTY Marshall DISTRICT Liberty

ENGINEER Thomas E. Virgin - J.M.

ENGINEER'S REGISTRATION NO. 1503

FILE NO. _____ DRAWING NO. Y-13-981

DATE 15 Apr. 1954 SCALE 1" = 800'

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

WELL LOCATION MAP

FILE NO. MARS-367-A
Now: 724-F

+ 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.

DEC 15 1994

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: STAHARA, ANDREW J. ETAL Operator Well No.: L-2937

LOCATION: Elevation: ^{1340.00} 1,540.00 Quadrangle: WILEYVILLE

District: LIBERTY County: MARSHALL
 Latitude: 2230 Feet South of 39 Deg. 45Min. 0 Sec.
 Longitude 1350 Feet West of 80 Deg. 57 Min. 30 Sec.

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

Agent: RICHARD L. COTY

Inspector: RANDAL MICK
 Permit Issued: 08/22/94
 Well work Commenced:
 Well work Completed: 08/22/94
 Verbal Plugging
 Permission granted on: N/A
 Rotary Cable Rig N/A
 Total Depth (feet) 2,400
 Fresh water depths (ft) 100
 Salt water depths (ft) 1100

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): 1036-1042

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 3/4	305	305	None
8 5/8	1,503	1,503	227 sks
7	2,049	2,049	250 sks
4 1/2		2,407	125 sks

OPEN FLOW DATA

Producing formation Maxton Pay zone depth (ft) 2048-2058
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 2900 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure 800 psig (surface pressure) after ? Hours

Second producing formation Big Injun Pay zone depth (ft) 2284-2300
 Gas: Initial open flow 1500 MCF/d Oil: Initial open flow _____ Bbl/d
 (After frac) Final open flow 2700 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 2.7 Years ~~XXXXXX~~
 Static rock Pressure 800 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.

Manager-Well Services R.L. Coty
 For: COLUMBIA GAS TRANSMISSION CORP.

By: R.L. Coty
 Date: 12/13/94

- 1) Perforated Maxton Sand from 2,048'-2,058' with 61 shots in dry (natural gas filled) wellbore using a logging truck and a wireline lubricator.
- 2) Geologic record remains as is originally on record.

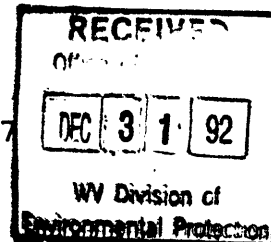
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: STAHARA, ANDREW J., ETUX Operator Well No.: L-2937

LOCATION: Elevation: 1340.00 Quadrangle: WILEYVILLE

District: LIBERTY County: MARSHALL
Latitude: 2200 Feet South of 39 Deg. 45Min. 0 Sec.
Longitude 1250 Feet West of 80 Deg. 57 Min. 30 Sec.



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

Agent: ROBERT C. WEIDNER

Inspector: RANDAL MICK
Permit Issued: 09/02/92
Well work Commenced: 09/16/92
Well work Completed: 11/01/92

Verbal Plugging
Permission granted on: N/A
Rotary Cable Rig
Total Depth (feet) 2400'
Fresh water depths (ft) 100' (EST.)
Salt water depths (ft) 1100' (EST.)

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1036-42
PITTSBURGH COAL

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10-3/4"	305'	305'	NONE
8-5/8"	1503'	1503'	227 SX
7"	2049'	2049'	250 SX
4-1/2"		2407'	125 SX

OPEN FLOW DATA

Producing formation BIG INJUN SAND Pay zone depth (ft) 2277'
 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 OPEN FLOS 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.

MAY 24 1993

Reviewed TMG
Recorded CH

For: COLUMBIA GAS TRANSMISSION CORP.

By: [Signature]
Date: DEC 22 1992

Activity

- 9/16/92: Atlas Wireline perforated Big Injun Sand 2284'-2300' (GR/CBL) w/3 holes/ft. to increase shot density to 6 holes/ft.
- 9/16/92: Halliburton foam fractured well with 75 quality foam: 50,000# 20/40 sand; 191 bbl. water; 389,000 SCF nitrogen; 15 BPM rate; 3035 psig avg. treating pressure; I.S.I.P: 2010 psig.

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

RECEIVED
FEB 26 1990

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work
Farm STAHARA, ANDREW J. ETUX. Operator Well No.: L-2937

LOCATION: Elevation: 1340.00 Quadrangle: WILEYVILLE

District: LIBERTY County: MARSHALL
Latitude: 2200 Feet South of 39 Deg. 45Min. 0 Sec.
Longitude 1250 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION
P. O. BOX 1273
CHARLESTON, WV 25325-0000

Agent: ROBERT E. WEIDNER

Inspector: MIKE UNDERWOOD
Permit Issued: 09/27/89
Well work Commenced: 10/13/89
Well work Completed: 2/16/90
Verbal Plugging
Permission granted on: N/A
Rotary x Cable Rig
Total Depth (feet) 2410 (KB)
Fresh water depths (ft) 100

Salt water depths (ft) 1100

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1036-1042

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10-3/4"		305'	none
8-5/8"		1503'	227 sx.
7"		2027'	250 sx.
4 1/2"		7' (KB)	125 sx.

RECEIVED
FEB 26 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Big Injun Sand Pay zone depth (ft) 2284'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 996 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 671 psig (surface pressure) after 24 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: [Signature]
Date: FEB 21 1990

(OVER)

MAR 05 1990

- 10/15/89: Pulled 2398' of existing 4½" 12.6#/ft. J-55 tubing & anchor packer (6-5/8"x4½").
- 10/17/89: Ran 77 joints of 4½" 11.6#/ft. K-55 casing and set same @2407'(KB). Halliburton cemented 4½" w/125 sx of 25/75 Pozmix, 6% Calseal, 1% Halad. 322.
- 10/19/89: Installed new National 7"x4½" API 2000# flanged wellhead w/2 Barton 4½" gate valves.
- 11.21/89: Western Atlas ran gamma-ray, neutron, and cement bond logs from 2375'-0'; swabbed 4½" casing down to 1100'.
- 01/18/90: Western Atlas perforated Big Injun Sand 2284'-2300', w/49 shots.
- Well log remains the same as previously submitted.

RECEIVED
FEB 26 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

051-724

051-000

Original mailed to Pgh. Office, 1-5-55

FORM 100 C.E.D. FACTORY STORAGE

The Manufacturers Light & Heat Company

Division 4
 Record of well No. 2937 on M.A. Walton Farm Acres
Cameron Field Liberty Township Marshall County West Va. State
 Rig Commenced 19 Completed 19
 Drilling Commenced August 16th. 19 54 Completed October 12th. 19 54
 Contractor Union Drilling Company Address Washington, Penna.
 Driller's Name Fred Haught, John Rice

CASING AND TUBING RECORD

Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/8"	4"	3"
Used in Drlg.		3:3	199	249			236	
Left in well	13 x 14'	305'	1503'	2069'			2408'	

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu. Ft.
						Top	Bottom		
4 x 6 5/8"	2164'	Anchor							

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					24 Hour R. P.	Max. R. P.	Hours
						1	5	10	30	60			
(ALL CASING & TUBING MEASURED OVER THREADS)													

TOTAL INITIAL OPEN FLOW

(NOT ENOUGH GAS TO TEST)

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Native Coal	736	740	4	305' of 10 3/4" casing was original casing
Mapletown Coal	936	941	5	1209' of 8 5/8" casing new run in well and
Pittsburgh Coal	1036	1042	6	connected to original casing left in hole
Maxton Sand	2047	2062	15	by 1. 8 5/8" Dia nipple original amount
Hig Injun Sand	2107	2367	260	of 8 5/8" casing 294' making a total of 1503'
Total Depth	2388			227 sacks cement run between 10 3/4" casing
				and 8 5/8" casing good return to surface
				7" casing set at 2047'
				44' of original 6 5/8" casing
				was left in hole, at the
				depth of 2105.
				top 2105
				bottom 2149'
				(TUBING RECORD)
				Bottom of first joint plated.
				First or bottom joint of 4" perforated
				then 66' of 4" run or 2 joints number 4 joint
				was perforated.
				1. 4 x 6 5/8" anchor packer run on top of
				8th joint making total of 214 ft of anchor
				under packer, or 8 joints.
				Above packer. 2164' of 4" or 71 joints.
				20' of screwage on this amount of tubing
				2408' of tubing in hole.

SEP 08 1985

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Examined above information and measurements and found to be correct by

Examined and Approved by

Contractor

[Signature]

Field Superintendent

NOTE-The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and shale, etc., are encountered, the nature of same, the quality of the sand, and thickness of same.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

422

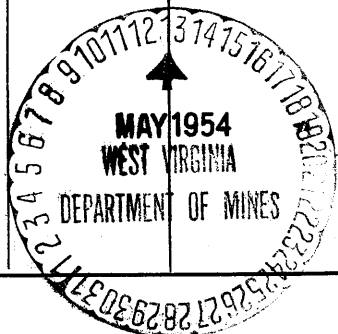
Permit No. 367A ⁰⁵¹ NOV:724 Oil or Gas Well _____ (KIND)

Company THE MANUFACTURERS LIGHT AND HEAT COMPANY
Address 800 UNION TRUST BLDG., PGH., PENNA.
Farm Geo. N. Yohe Acres 136
Location (waters) _____
Well No. 2937 Elev. 1353'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced June 30, 1924
Drilling completed July 25, 1924
Date Shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 1,867,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	305	305	Size of
8 1/4	1493	1493	
6 1/2	2150	2150	Depth set
5 3/16			
3			Perf. top
2	2399-3	2399-3	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 736 FEET _____ INCHES
936 FEET _____ INCHES 1036 FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			16	30			
Lime			200	240			
Sand			300	325			
Coal			736	740			
Mapletown Coal			936	941			
Pitts. Coal			1036	1042			
Sand			1060	1085			
Red Rock			1150	1182			
Murphy Sand			1182	1220			
Big Dunkard			1488	1500			
Gas Sand			1660	1742			
Maxon Sand			2045	2072			
Gas 2060 to 2066							
Total Depth			2072				
DRILLED DEEPER:							
Drilling Commenced September 4, 1928; Completed September 14, 1928							
Drilled Deeper from depth of 2072							
Slate			2072	2082			
Big Lime			2082	2125			
Big Injun			2125		Gas 2284 - 2298		
Total Depth			2298				
NOTE: In 1936 this well was drilled deeper to 2400' but we do not have a record of this drilling.							



NOV 12 1954
(Over)

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

- 1) Well Operator: ¹⁷⁵ Columbia Gas Transmission Corp. 10450 (4) 680
- 2) Operator's Well Number: L-2937 3) Elevation: 1340'
- 4) Well type: (a) Oil___/ or Gas X/
(b) If Gas: Production___/ Underground Storage X/
Deep___/ Shallow X/
- 5) Proposed Target Formation(s): ³⁷¹ Big Injun Sand
- 6) Proposed Total Depth: 2400 feet
- 7) Approximate fresh water strata depths: Estimated @ 100'
- 8) Approximate salt water depths: Estimated @ 1100'
- 9) Approximate coal seam depths: Pittsburgh Coal @ 1036' - 1042'
- 10) Does land contain coal seams tributary to active mine? Yes___/ No X/
- 11) Proposed Well Work: 1) Remove the existing 4-1/2" OD casing; 2) Drill deeper from 2388' to 2400'; 3) Run & cement new 4-1/2" OD casing with 400 sks.; and 4) Perforate
- 12) the Maxton and Big Injun Sands undetermined by well logs.

CASING AND TUBING PROGRAM - EXISTING

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" OD	-	-	305'	305'	None
Coal	8-5/8" OD	J-55	24#	1503'	1503'	227 sks.
Intermediate	7" OD	N-80	23#	2049'	2049'	250 sks.
Production	4-1/2" OD	J-55	12.6#	2388'	2388'	400 SKS None
Tubing						300 SKS 11.1
Liners	7" OD	-	-	-	(from 2105 - 2149) 44'	None

PACKERS : Kind Anchor Packer
 Sizes 4-1/2" x 7"
 Depths set 2164'

RECEIVED
 SEP 30 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

RECEIVED
SEP 08 1989

Date: August 31, 1989
Operator's well number
L-2937
API Well No: 47 - MARS - 367 - FRAC
State - County - Permit
Clean-Out & Pac.

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Andrew J. Stahara, et ux
Address RD #5, Box 174
Cameron, W. Va. 26033
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name Consolidation Coal Co.
Address Consol Plaza, 1800 Washington Rd.
Pittsburgh, PA 15241
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
- Name _____
Address _____
- (c) Coal Lessee with Declaration
Name McElroy Coal Co.
Address Consol Plaza, 1800 Washington Rd.
Pittsburgh, PA 15241
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, W. Va. 26426
Telephone (304)- 782-1043

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 Corporation
By: Raster
Its: Director, Drilling & Maintenance
Address P. O. Box 1273
Charleston, WV 25325-1273
Telephone 304-357-2459



Subscribed and sworn before me this 5th day of September, 1989
Mary Parsons Notary Public
My commission expires October 10, 1994

AUG 07 02

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

051-324 Frac
 Issued 9/2/92
 Page 1 of 1
 Expires 9/2/94

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION ¹⁷⁵ 10450 (4) 68°
- 2) Operator's Well Number: L-2937 3) Elevation: 1340
- 4) Well type: (a) Oil or Gas
 (b) If Gas: Production Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): Big Injun Sand ³⁷¹
- 6) Proposed Total Depth: 2400 feet
- 7) Approximate fresh water strata depths: 100' (est.)
- 8) Approximate salt water depths: 1100' (est.)
- 9) Approximate coal seam depths: Pittsburgh Coal - 1036'-1042'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: Fracture the Big Injun 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	
Conductor						
Fresh Water	10-3/4"	-	-	305'	305'	none
Coal	8-5/8"	J	24	1503'	1503'	227 sx.
Intermediate	7"	N	23	2049'	2049'	250 sx.
Production	4-1/2"	K	11.6		2407'	125 sx.
Tubing						
Liners						

PACKERS : Kind none
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

0180537

14060

RECEIVED
AUG 0 7 1992

- 1) Date: 07/27/92
- 2) Operator's well number L-2937
- 3) API Well No: 47 - 051 - 0724F
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Andrew J. Stahara, et al
Address RD 5, Box 174
Cameron, WV 26033
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Consolidation Coal
Address Consol Plaza, 1800 Washington Rd.
Pittsburgh, PA 15241
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Randal Mick
Address Rt. 3, Box 248
Weston, WV 26452
Telephone (304)-269-2335

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

_____ Included is the lease or leases or other continuing contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 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:

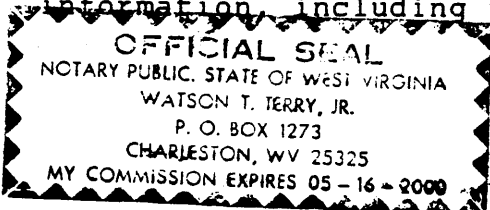
- _____ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

*Storage
Sever
Well 2937
Omitted*

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 27th day of August, 1992
Watson T. Terry, Jr. Notary Public
 My commission expires May 16, 2000

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

Issued 8/22/94
10450 (4) 681

19530

1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION

Operator's Well Number: L-2937 3) Elevation: 1540

Well type: (a) Oil / or Gas x /

Expires 8/22/96

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

Proposed Target Formation(s): Maxton Sand 2048'-2058'

Proposed Total Depth: 2400 feet

7) Approximate fresh water strata depths: 100' (est.)

8) Approximate salt water depths: 1100' (est.)

9) Approximate coal seam depths: Pittsburgh Coal - 1036'-1042'

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

11) Proposed Well Work: Perforate the Maxton Sand that was previously open before new pipe was cemented in 1989. See attached procedure.

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"			305'	305'	None
Coal	8-5/8"	J	24	1503'	1503'	227 sx.
Intermediate	7"	N	23	2049'	2049'	250 sx.
Production	4-1/2"	K	11.6		2407'	125 sx.
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 Blanket (Type) Agent

0393 907
25

1) Date: 07/14/94
2) Operator's well number
L-2937
3) API Well No: 47 - 051 - 0724F
State - County - Permit
Formerly 0367

RECEIVED
OFFICE OF OIL AND GAS

JUL 21 1994

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

WV Division of Environmental Protection
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Andrew J. Stahara, et al
Address RD 5, Box 174
Cameron, WV 26033
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Randal Mick
Address Rt. 3, ~~Box~~ Box 248
Weston, WV 26452
Telephone (304)-269-2335

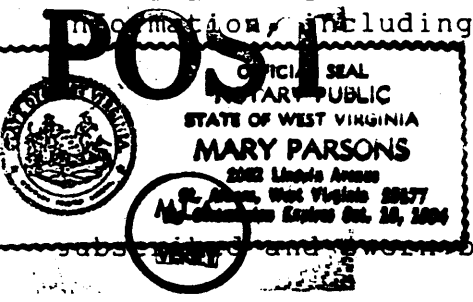
5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name Consolidation Coal
Address Consol Plaza, 1800 Washington Rd.
Pittsburgh, PA 15241
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

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
 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 2 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: *R. Anderson*
Its: Director, Drilling & Maintenance
Address P. O. Box 1273
Charleston, WV 25325-1273
Telephone 304/357-2459



Subscribed and sworn to before me this 15th day of July, 1994
Mary Parsons Notary Public
My commission expires October 2, 1994