

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2')

NOTES: This Map is For Well Location Only And Does Not Represent A Complete Property Survey Location Determined By Differential GPS Survey

FILE NO. _____
 DRAWING NO. 7229
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION EXISTING WELL

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) [Signature]
 R.P.E. _____ L.L.S. 819

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



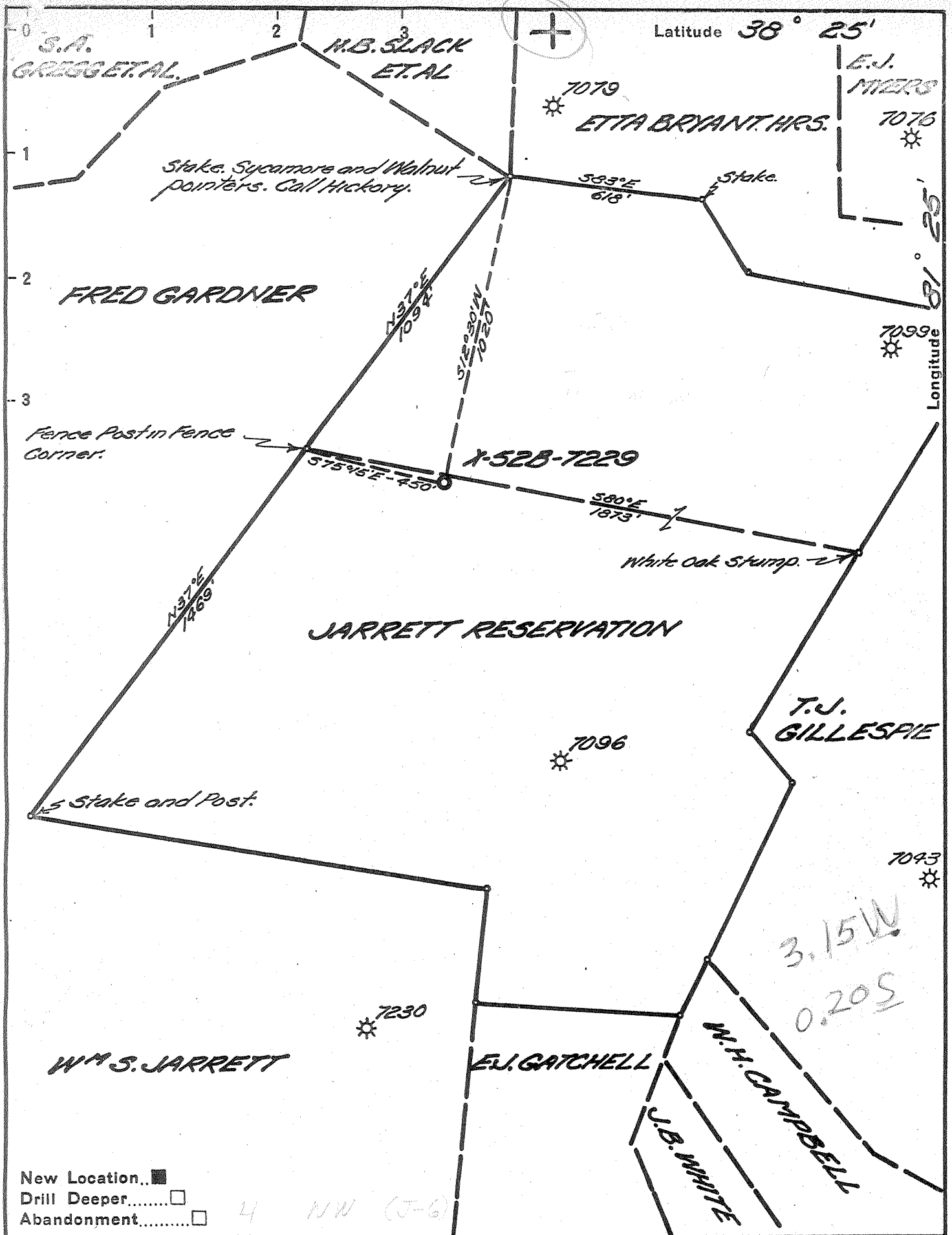
DATE JUNE 24, 19 99
 OPERATOR'S WELL NO. 7229
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 760' WATER SHED PINCH CREEK
 DISTRICT E1k COUNTY Kanawha
 QUADRANGLE Blue Creek WV COORDINATES LAT: 38°24'49" LONG: 81°28'30"
 SURFACE OWNER Freda M. Morton ACREAGE 45.78
 OIL & GAS ROYALTY OWNER Chester E. Ray Jr., Et Al. LEASE ACREAGE 851
 COAL OWNER Chester E. Ray Jr., Et Al. LEASE NO. 1049098
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recondtion

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION _____ ESTIMATED DEPTH 5115' to SEP 7 1999
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT RICHARD L COTY
 ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

DEEP well

KANAWHA COUNTY NAME PERMIT 1616



Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm JARRETT RESERVATION
 Tract _____ Acres 851.5 DEED Lease No. 49098
 Well (Farm) No. _____ Serial No. 7229
 Elevation (Spirit Level) 814.04'
 Quadrangle CLENDENIN - WC
 County KANAWHA District ELK
 Engineer Seibert R. Russell
 Engineer's Registration No. 2529
 File No. 70-63 Drawing No. _____
 Date 7-8-53 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. KAN-1616

+ 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 3

Quadrangle Glendenin

WELL RECORD

Permit No. KAN-1616

Oil or Gas Well Gas
(KIND)

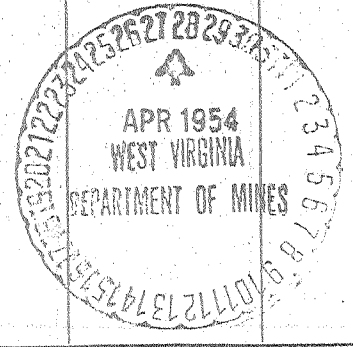
Company UNITED FUEL GAS COMPANY
Address P.O. Box 1273, Charleston 25, W. Va.
Farm Jarrett Reservation Acres 851.5'
Location (waters) Pinch Creek
Well No. X-52-B-7229 Elev. 814.04'
District Elk County Kanawha
The surface of tract is owned in fee by John Morton
Address _____
Mineral rights are owned by United Fuel Gas Co.
Address Charleston, W. Va.
Drilling commenced 9-28-53
Drilling completed 3-10-54
Date Shot Not shot From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16		21'	Kind of Packer _____
13		325'	
10-3/4"		1600'	Size of _____
8-5/8"		5004'	
6"			Depth set _____
5 3/16			
3			Perf. top _____
2		5115'	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

Open Flow 52 /10ths Water in 7 Inch
/10ths Merc. in _____ Inch
Volume 3,078,000 Cu. Ft.
Rock Pressure 770 lbs. 36 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 70 feet 457 feet
Salt water _____ feet _____ feet

CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT		FEET	INCHES
	FEET	INCHES	FEET
	FEET	INCHES	FEET

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand & Gravel			0	21			
Sand			21	40			
Slate			40	45			
Sand			45	100			
Slate			100	137	Water 70' hole full		
Sand			137	167			
Slate			167	180	Hole full water 457'		
Sand			180	255			
Slate			255	324	Gas 1618' no test.		
Sand			324	424			
Slate & Shells			424	453	Oil 1660' no test.		
Sand			453	500			
Slate & Shells			500	555	Hole reduced from 10" to 8" at 2072'		
Sand			555	580			
Slate & Shells			580	665	Show of gas 5087-5090'.		
Sand			665	705			
Slate & Shells			705	720	Gas 5103-5114' 52/10 W 7" 23# 3,078 M		
Sand			720	765			
Slate & Shells			765	826	Not shot		
Sand			826	860			
Slate			860	862			
Sand			862	1052	FINAL OPEN FLOW -3,078 M - Oriskany		
Slate			1052	1092	36 Hr. R.P. 770#		
Sand			1092	1308			
Slate			1308	1320			
Lime			1320	1360	Shut in 4-10-54 in 2" tubing.		
Slate & Shells			1360	1395			
Lime			1395	1439			
Maxon Sand			1439	1452			
Little Lime			1452	1495			
Pencil Cave			1495	1500			
Lime			1500	1507			
Pencil Cave			1507	1512			
Lime			1512	1518			
Pencil Cave			1518	1524			
Big Lime			1524	1655			
Sand			1655	1690			
Slate			1690	1702			
Red Injun			1702	1723			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1723	1760			
Sand			1760	1785			
Slate			1785	1826			
Weir Sand			1826	1919			
Slate & Shells			1919	3750			
Brown Shale			3750	4055			
Slate			4055	4625			
Brown Shale			4625	4872			
Black Shale			4872	4969	4969	5080	
Corniferous			4969	5080	814	814	
Oriskany			5080				
Total depth			5115'		41.55	4266	

Date April 27, 19 54

APPROVED UNITED FUEL GAS CO., Owner

By [Signature]

WR-35

Division of
Oil and Gas
Permitting

JAN 13 2000

Division of

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

30-Aug-99
API # 47- 39-01616 F

Reviewed K

Farm name: MORTON, FREDA M. Operator Well No.: COCO B 7229

LOCATION: Elevation: 760.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 1200 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 4825 Feet West of 81 Deg. 27 Min. 30 Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELEY
Permit Issued: 08/31/99
Well work Commenced: 09-20-99
Well work Completed: 12-10-99
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable x _____ Rig
Total Depth (feet) 5157'
Fresh water depths (ft) 70', 457'

Salt water depths (ft) _____
Not Reported
Is coal being mined in area (Y/N)? No
Coal Depths (ft): Not Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	48 lb.	328'	
10-3/4"	40.5 lb.	1583'	500 sx
5-1/2"	15.5 lb.	5004'	750 sx
3-1/2"	9.2 lb.	5153'	75 sx

OPEN FLOW DATA * Storage well - rates and pressures vary.

Producing formation Oriskany (Storage) Pay zone depth (ft) 5097' - 5112'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ 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: Paul Amick
Date: 12-30-99

KAN 161616 F

FEB 25 2000

Pulled 5116' of 2-3/8" tubing, drilled new 4-3/4" hole 5116' - 5157', installed new API 5M wellhead. Ran 5153' of 3-1/2", 9.2 lb J-55 tubing and cemented w/75 sx of Class "A" cement, perforated Oriskany 5097' - 5112' w/6 SPF, and pumped an N2-Assist Deltafrac Treatment using 500 gallons of 28% HCL, 442 bbls of water, 113 MSCF N2, and 21,600 lbs of 20/40 sand at 1 - 4 PPG.