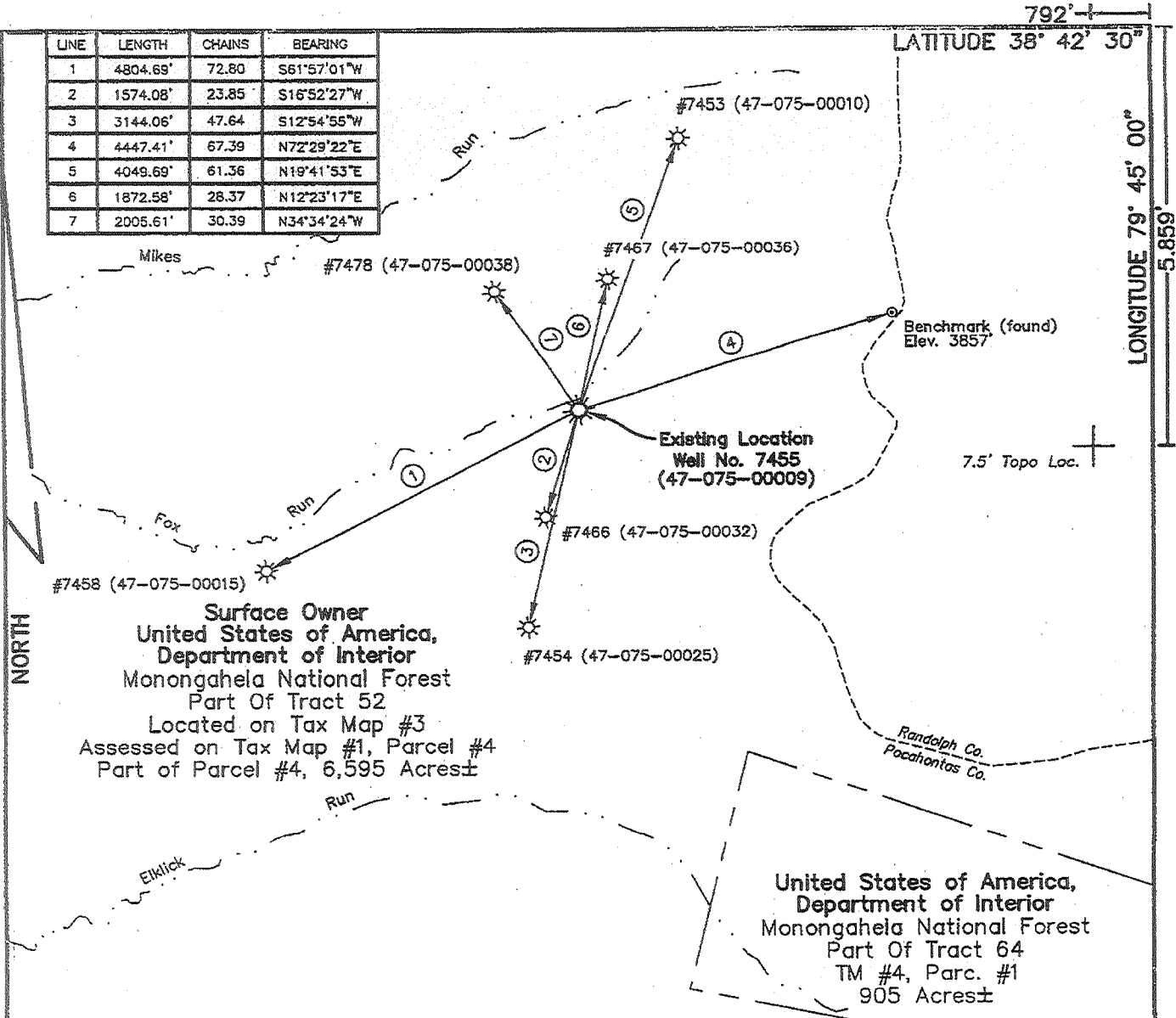


LINE	LENGTH	CHAINS	BEARING
1	4804.69'	72.80	S61°57'01"W
2	1574.08'	23.85	S16°52'27"W
3	3144.06'	47.64	S12°54'55"W
4	4447.41'	67.39	N72°29'22"E
5	4049.69'	61.36	N19°41'53"E
6	1872.58'	28.37	N12°23'17"E
7	2005.61'	30.39	N34°34'24"W



Surface Owner
 United States of America,
 Department of Interior
 Monongahela National Forest
 Part Of Tract 52
 Located on Tax Map #3
 Assessed on Tax Map #1, Parcel #4
 Part of Parcel #4, 6,595 Acres±

United States of America,
 Department of Interior
 Monongahela National Forest
 Part Of Tract 64
 TM #4, Parc. #1
 905 Acres±

NOTE:
 This map is for well location only and does not represent a complete property survey. Property corner position shown for Tract 64 is from survey dated April 9, 1997 for Well #7466 (47-075-00032).

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS X-77 GLADY STORAGE FIELD

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GPS Submeter Unit

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 DIVISION OF ENVIRONMENTAL PROTECTION (SIGNED) *Charles W. ...*
 R.P.E. - L.L.S. #819



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE April 13 2011
 OPERATOR'S WELL NO. 7455
 API WELL NO.

47 - 075 - 00009W
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 3284.50' WATER SHED Fox Run of West Fork of Greenbrier River
 DISTRICT Greenbank COUNTY Pocahontas
 QUADRANGLE Wildell & Sinks Of Gandy COORDINATES Lat: 38° 41' 32" Long: 79° 45' 10"
 SURFACE OWNER US, Department of Interior, Bureau of Land Management ACREAGE 6,595 (Tr. 52)
 OIL & GAS ROYALTY OWNER US, Department of Interior LEASE ACREAGE 46,938.4
 COAL OWNER - LEASE NO. 90700
 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

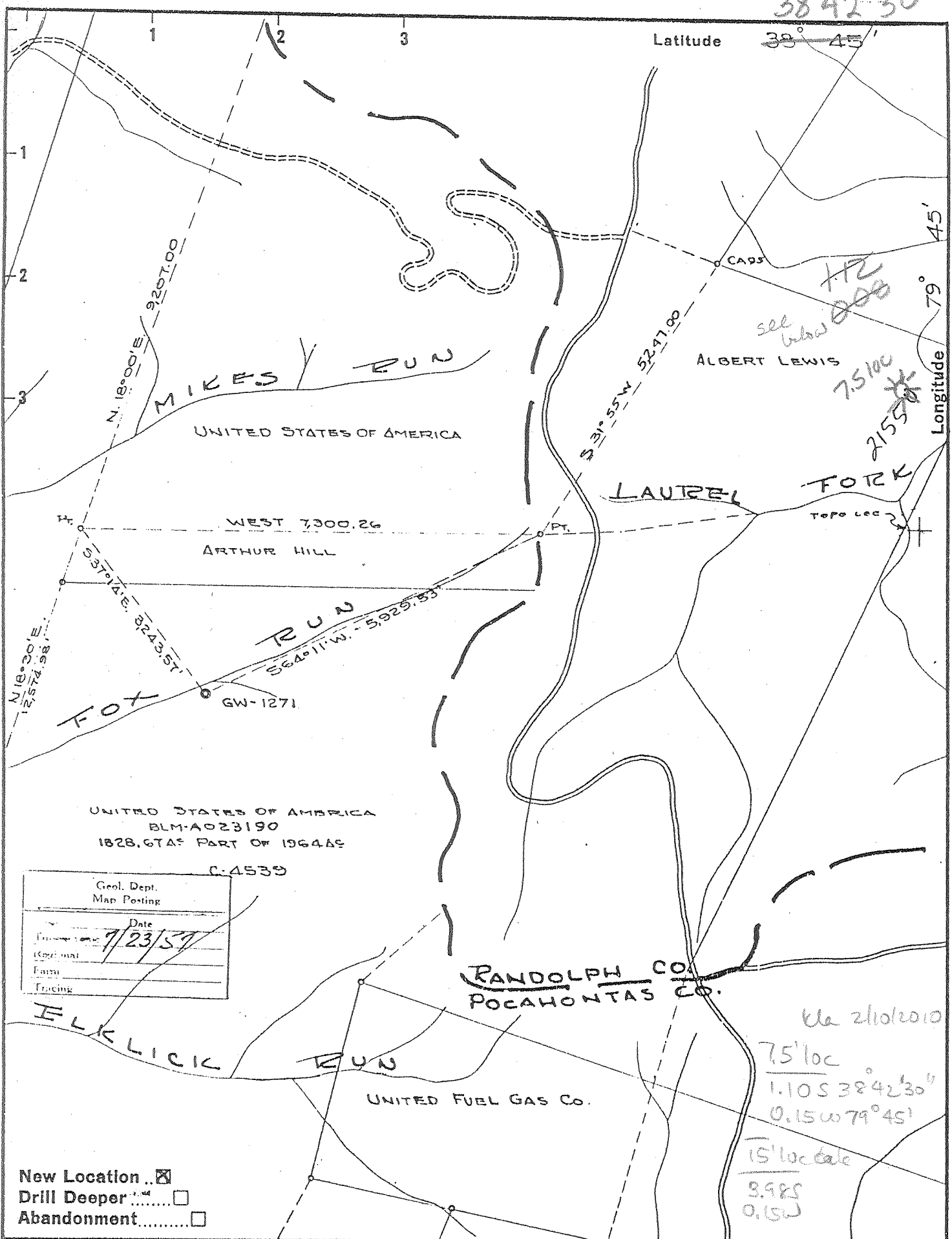
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION - ESTIMATED DEPTH -
 WELL OPERATOR NISOURCE GAS TRANSMISSION & STORAGE CO. DESIGNATED AGENT PAUL C. AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS PO BOX 1273, CHARLESTON, WV
 25325-1273 25325-1273

FORM WV-6

POCAHONTAS 00009
 COUNTY NAME PERMIT

MAY 27 2011

38 42 30 ✓



UNITED STATES OF AMERICA
 BLM-A023190
 1828.6TAS PART OF 1964AS
 C-4539

Geol. Dept.	
Map Posting	
Date	7/23/57
Prepared by	
Checked by	
Drawing	
Tracing	

- New Location
- Drill Deeper
- Abandonment

Company COLUMBIAN CARBON CO.
 Address Box 873 CHARLESTON, WVA.
 Farm UNITED STATES OF AMERICA
 Tract 52 Acres 1828.6T Lease No. BLM-A023190
 Well (Farm) No. I-1 Serial No. GW-1271
 Elevation (Spirit Level) 3314.85
 Quadrangle DURBIN Wildell 715
 County POCAHONTAS District GREENBANK
 Engineer L. B. Anderson
 Engineer's Registration No. 2074
 File No. _____ Drawing No. W-14-57
 Date 5-10-57 Scale 1" = 2000'

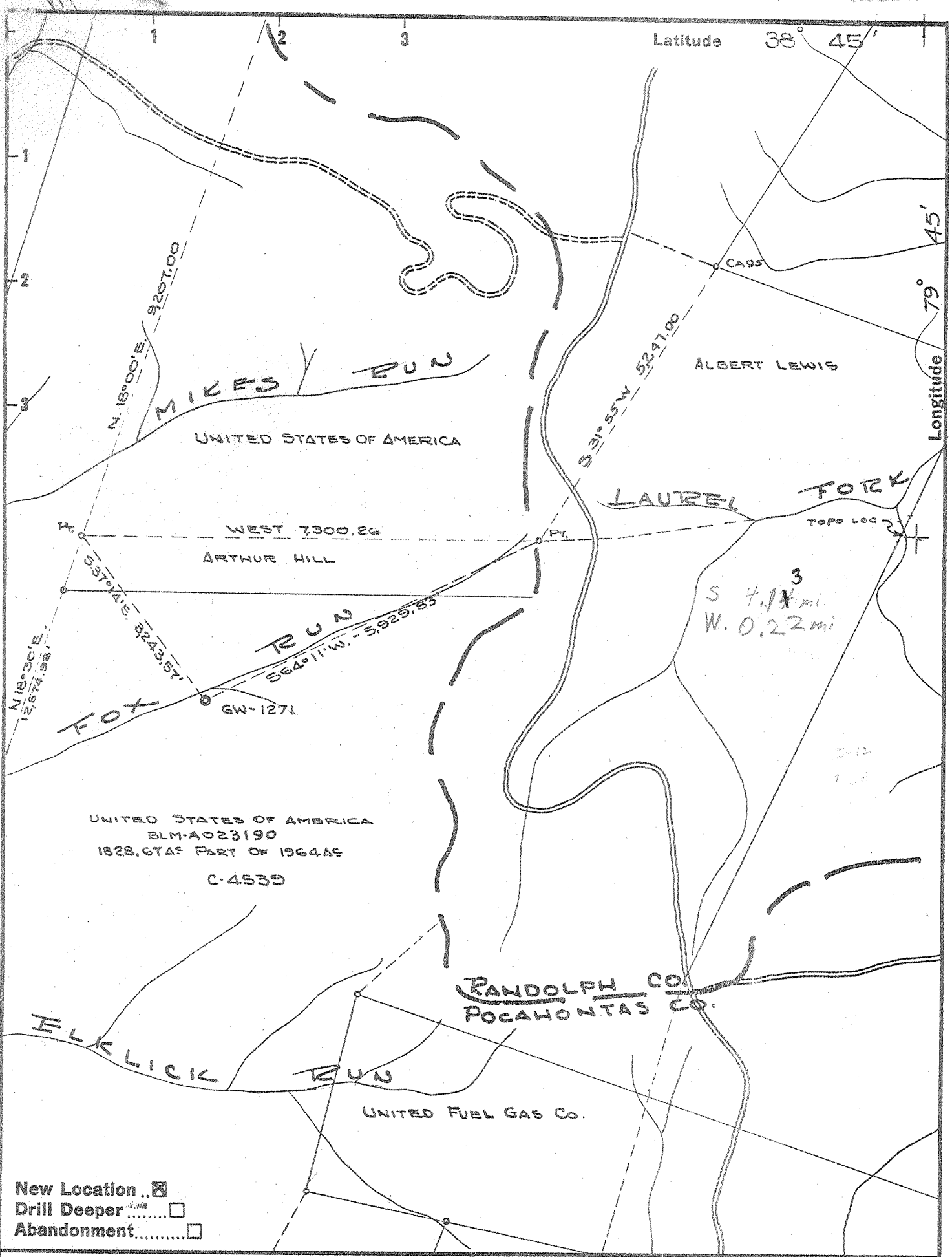
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. POCA-9

+ 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
CHARLESTON

WELL LOCATION MAP
FILE NO. POCA-9

+ 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.

6-6 261 Deep Well

Tract



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Quadrangle Durbin

Permit No. POCA-9

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Columbian Carbon Company
Address Box 873, Charleston 23, W. Va.
Farm United States of America Acres 1828.67
Location (waters) Fox Run
Well No. I-1 GW-1271 Elev. 3314.85'
District Greenbank County Pocahontas
The surface of tract is owned in fee by Director, Bureau of Land Management
Interior Building Address Washington, D. C.
Mineral rights are owned by Same
Address _____

Drilling commenced 1-10-58
Drilling completed 5-21-58
Date Shot not shot From _____ To _____
With _____

Open Flow 20/10ths Water in 3 Inch
_____/10ths Merc. in _____ Inch
Volume 424,000 Cu. Ft.
Rock Pressure 1550 lbs. 36 hrs.
Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED not acidized

WELL FRACTURED See reverse side.

RESULT AFTER TREATMENT 55# on Spring Gauge thru 3" - 14,276,000 cubic feet

ROCK PRESSURE AFTER TREATMENT 1457# Dead Weight - 51 hours

Fresh Water 73' Feet Salt Water _____ Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Baker</u>
16			<u>Full Bore Packer</u>
18 3/8" 48#	32'6"	32'6"	Size of <u>7" x 3"</u>
10 3/4" 40.5#	1056'1"	1056'1"	Depth set <u>5029'</u>
8 1/2"			
8 1/2" 23#	5941'4"	5941'4"	
5 3/16"			
3 1/2" 9.2#	5094'3"	5094'3"	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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

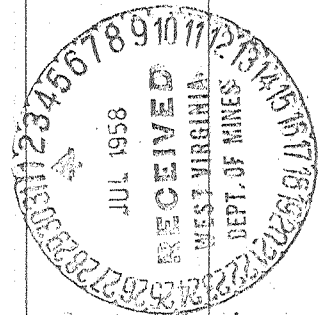
See reverse side.

COAL WAS ENCOUNTERED AT None FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	15			
Gritty Lime			15	210	Fresh Water	73'	2-13" bailers/hr
Sand			210	290			
Gritty Lime			290	526			
Sand			526	649			
Gritty Lime			649	1048	1035' DLM - 1040' SLM		
Slate			1048	1068			
Gritty Lime			1068	1082			
Slate & Shells			1082	1292			
Lime & Shells			1292	2381			
Gray Shale			2381	2741			
Lime & Shells			2741	3210			
Lime & Shale			3210	3460			
Shale			3460	3765			
Lime			3765	4065			
Shale & Lime			4065	4567			
Shale			4567	4735			
Shale & Lime			4735	4936			
Shale			4936	5240			
Black Shale			5240	5425			
Shale & Lime			5425	5509			
Chert			5509	5558			
Shale			5558	5650			
Oriskany			5650	5834			
Lime			5834	5908'	Schlumberger Meas. -		
				5895'	Landing Flange Meas.		
Total depth				5908'	Schlumberger Meas. -		
				5895'	Landing Flange Meas.		



(over)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Cable tools	0 -	2891'					
Rotary tools	2891 -	5895'					
<u>Casing Record</u>							
2-27-58	- Ran 10 3/4'	casing at 1040'	SLM on shoe.	Cemented with 250	sacks cement.	Circulation	but no returns.
5-21-58	- Ran 7" 23#	casing at 5895'	on shoe	and differential fill-up	collar and 5 centralizers	1 - bottom, 1 - top	of Sand. 1 - bottom, 1 - Middle-1 - top of Chert. Ran 225 sacks cement.
<u>Perforation Record - 7" casing.</u>							
5801-08		4 shots per foot					
5780-82'	"	"	"	"			
5773-78'	"	"	"	"			
5745-72'	"	"	"	"			
5711-25'	"	"	"	"			
5699-5703'	"	"	"	"			
5671-73'	"	"	"	"			
5665-67'	"	"	"	"			
5651-53'	"	"	"	"			
5528-44'	"	"	"	"			
Total of 334' Shots							
<u>Fracturing Record - 6-11-58</u>							
After perforating gas gauged 424M. Ran 3 1/2" tubing and set packer at 5029'. 86 hour pressure 1550#. Pumped in 2 barrels kerosene, 2000 gallons MCA, 25 barrels kerosene to load hole. Displaced 12' barrels acid at 1500# and 36 barrels acid at 1400#. 3400# Maximum pressure - Pump time 4 minutes. 493 gallons per minute Injection rate. Pumped in 1200 gallons kerosene and 12,800# Sand. Maximum pressure 3400#. Pressure at end of gel 2700#. Injection rate 1,000 gallons per minute. Flushed with 105 barrels kerosene - started flush at 2700# - end of flush 1700#. Used 400 perf balls. Final open flow 55# on Spring Gauge thru 3 1/2" tubing - 14,276MCF. 51 hour pressure 1457#.							

12
 36

 48
 42

 96
 192

 201 6

Date June 27, 1958

APPROVED Columbian Carbon Company, Owner

By R. B. Anderson, General Manager
(Title)

WR-35
Rev (8-10)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: _____
API #: 47-075-00009 *W*

Farm name: US Dept of Interior Operator Well No.: 7455

LOCATION: Elevation: 3285 Quadrangle: Wildell & Sinks of Gandy

District: Greenbank County: Pocahontas
Latitude: 5859 Feet South of 38 Deg. 42 Min. 30 Sec.
Longitude 792 Feet West of 79 Deg. 45 Min. 00 Sec.

Company:

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Columbia Gas Transmission, LLC 1700 MacCorkle Ave SE Charleston, WV 25325	13-3/8	33	33	none - sanded
Agent: Paul Amick	10-3/4	1056	1035	250 sx
Inspector: Joe McCourt	7	5895	5895	821
Date Permit Issued: 5/24/2011				
Date Well Work Commenced: 6/21/2011				
Date Well Work Completed: 11/21/2011				
Verbal Plugging: NA				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft):				
Total Measured Depth (ft): 5895				
Fresh Water Depth (ft.): 73				
Salt Water Depth (ft.): none reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): none				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Chert Pay zone depth (ft) 5509 - 5558

Gas: Initial open flow NA MCF/d Oil: Initial open flow NA Bbl/d

Final open flow commingled MCF/d Final open flow commingled Bbl/d

Time of open flow between initial and final tests NA Hours

Static rock Pressure 1780 psig (surface pressure) after 24 Hours

Second producing formation Oriskany Pay zone depth (ft) 5650 - 5834

Gas: Initial open flow NA MCF/d Oil: Initial open flow NA Bbl/d

Final open flow 62400 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests NA Hours

Static rock Pressure 1780 psig (surface pressure) after 24 Hours

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NOV 30 2011

WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.


Signature

11/30/11
Date

01/27/2012

Glady (261) 9-0

Were core samples taken? Yes _____ No NA

Were cuttings caught during drilling? Yes _____ No NA

Were N Electrical, N Mechanical, N or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Planned permitted stimulation was cancelled. Tubing was pulled, pipe inspection log ran, and a new wellhead installed.

Formations Encountered: _____ Top Depth _____ / _____ Bottom Depth
Surface: _____

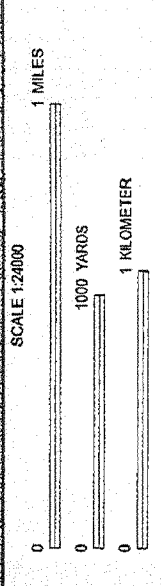
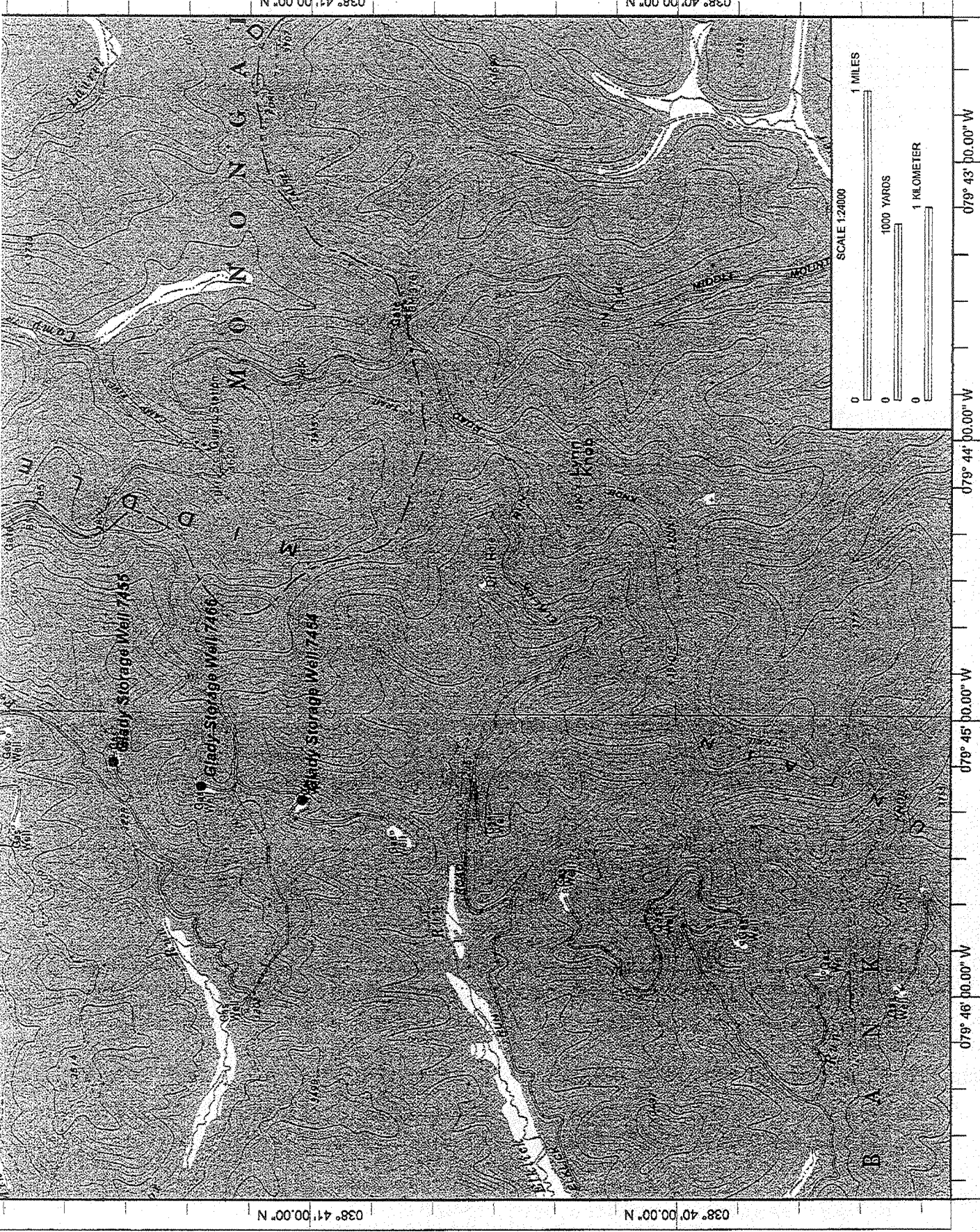
Not applicable - rework.

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WV Department of
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MAY 27 2011