

FILE NO. _____
 DRAWING NO. 7298
 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) Edwin L. ...
 R.P.E. _____ L.L.S. 798

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 PLACE/SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 SECTION OF OIL & GAS

DATE MARCH 1, 2000
 OPERATOR'S WELL NO. 7298
 API WELL NO. 47 035 00497W
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 658.0' WATER SHED TRIBUTARY TO MUD RUN OF SANDY CREEK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE SANDYVILLE WV COORDINATES LAT: 38°52'55" LONG: 81°41'52"

SURFACE OWNER MARY J. BENSON ACREAGE 50
 OIL & GAS ROYALTY OWNER MARY E. BALSER LEASE ACREAGE 59
 COAL OWNER MARY E. BALSER LEASE NO. 52773

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

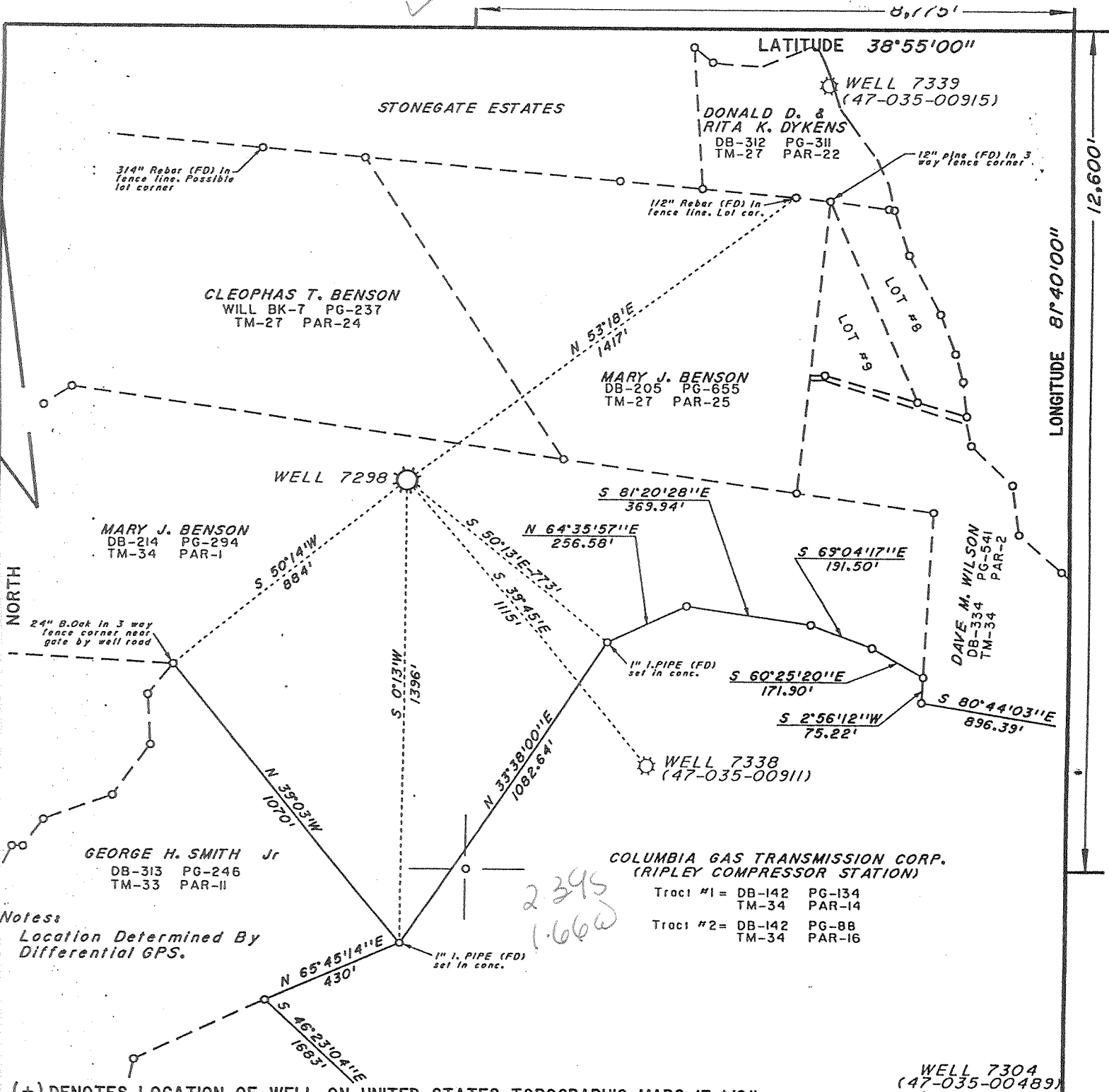
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION _____ ESTIMATED DEPTH _____

WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT RICHARD L COTY
 ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

DEEP WELL

APR 1 2000

LONGITUDE 81°40'00"
 12.600"
 1009.1
 JACKSON COUNTY NAME
 PERMIT 497 W



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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 SECTION OF OIL & GAS

DATE MARCH, 19 99
 OPERATOR'S WELL NO. 7298
 API WELL NO. 47 035 00497-7

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

LOCATION: ELEVATION 658.0' WATER SHED TRIBUTARY TO MUD RUN OF SANDY CREEK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE SANDYVILLE WV COORDINATES LAT: 38°52'55" LONG: 81°41'52"

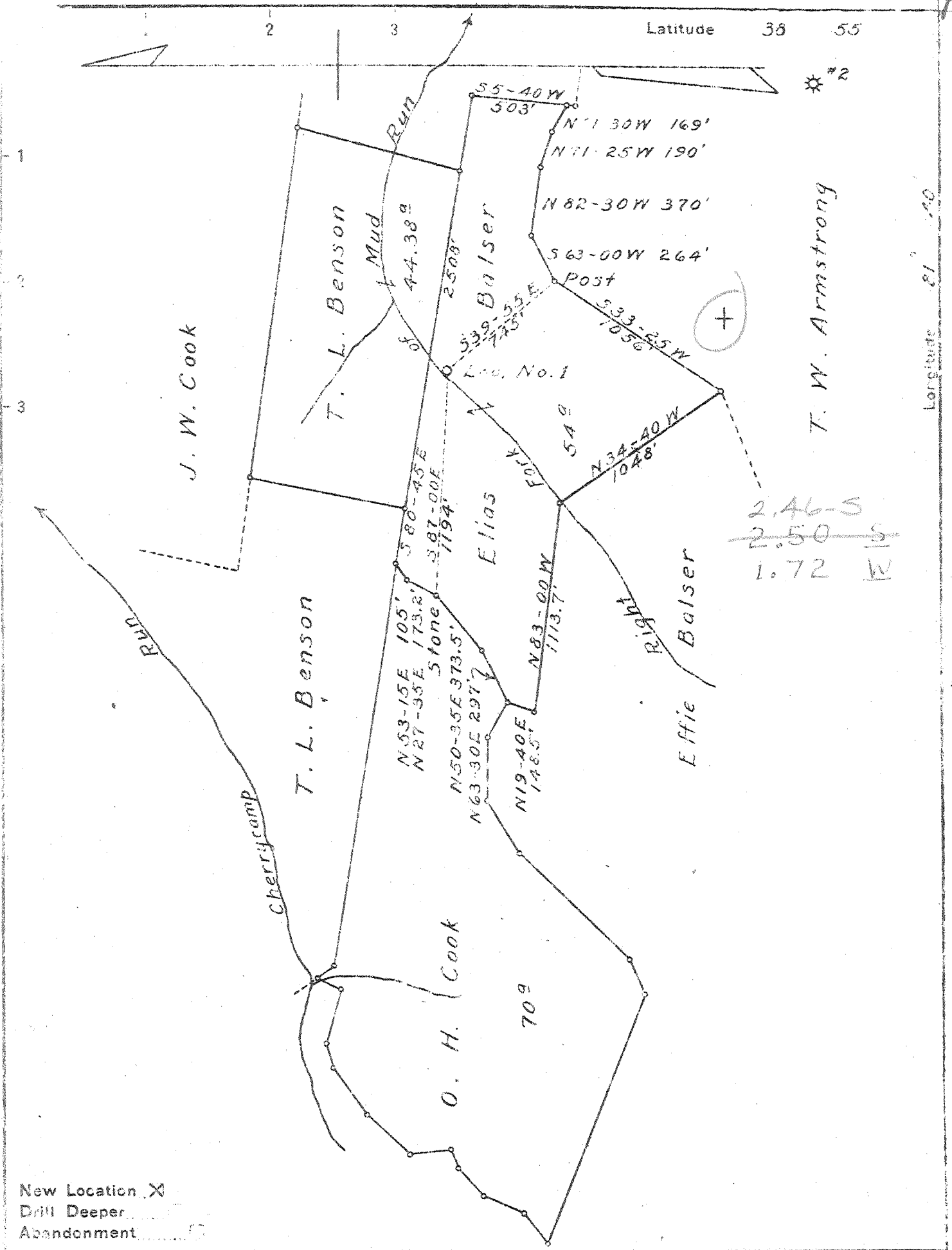
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PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recondition

Existing Storage Well drilled in 1965 by United Carbon, TD.
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4822'

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

COUNTY NAME JACKSON
 PERMIT 497



2,46-S
~~2,50-S~~
 1.72 W

New Location X
 Drill Deeper
 Abandonment

Company United Carbon Company
 Address Charleston, W. Va.
 Farm Elias Balsler et al
 Tract _____ Acres 168.33 Lease No. 5174
 Well (Farm) No. 1 Serial No. 1295
 Elevation (Spirit Level) 657.9' Ground
 Quadrangle Ripley (N.W.) W0
 County Jackson District Ravenswood
 Engineer C. G. Withrow
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date Aug. 24, 1945 Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO. JAC-497

+ 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

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Jac 497
Ripley N.W. Quad.

Gas Well
CASING & TUBING

Company	United Carbon Company			
Address	Box 1913, Charleston, 27, W.Va.	16	60	60
Farm	Elias Balsler et al Acres 168.38	13 3/8	526	500
Location	Right Fork of Mud Run	10 1/2	761'9	
Well No.	1 (1295) Elev. 661'	8 5/8	1971'	1971'
District	Ravenswood Jackson County	7 OD	4709'	4709'
Surface	Elias Balsler et al, 133 Blaine St. Washington, Penna.	2 3/8	4804'	4804'

CASING CEMENTED: 7"
4816' 12-10-45

Mineral	Same
Commenced	Sept. 11, 1945
Completed	Dec. 21, 1945
Not shot	
Open flow	67/10ths M in 7" OD 22#
Volume	13,027,000 G.F.
Rock Pressure	1420 lbs. 24 hrs.
Salt Water	1150' 1 BP hr.; 1230' H.F.

Surface	0	10
Sand	10	50
Red Rock	50	100
Slate White	100	225
Red Rock	225	250
Slate White	250	325
Red Rock	325	350
Slate White	350	450
Sand	450	520
Slate	520	585
Sand - 1 1/2 ft. Sand	585	654
Slate White	654	660
Red Rock	660	695
Slate White	695	715
Sand	715	727
Slate White	727	733
Red Rock	733	755
Slate & Shells	755	945
Slate Black	945	955
Slate & Shells	955	1000
Red Rock	1000	1005
Slate Blue	1005	1064
Sand	1064	1130
Slate & Shells	1130	1200
Slate Black	1200	1218
Sand	1218	1460
Slate	1460	1465
Lime	1465	1530
Slate	1530	1542
Sand	1542	1700
✓ Lime - by line	1700	1840
✓ Sand - In run	1840	1970
Slate	1970	2050
Lime	2050	2100
Slate & Shells	2100	2300
✓ Shale Brown	2300	2312
✓ Berea Shells	2312	2315
Slate & Shells	2315	3560
Shale	3560	3700
Slate & Shells	3700	3780
Shale	3780	3860
Slate & White	3860	3900
Shale Brown	3900	4010
Slate White	4010	4440
Shale Brown	4440	4694
✓ Corniferous Lime - 463	4694	4806
✓ Criskany Sand	4806	
TOTAL DEPTH		4822

475

MLB

WR-35

DATE:
API #: 47-035-00497 W

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

Well Operator's Report of Well Work

Farm name: Betty Jo Benson, ETAL Operator Well No.: Ripley # 7298

LOCATION: Elevation: 658' Quadrangle: Sandyville, WV

District: Ravenswood County: Jackson
Latitude: Feet South of 38 Deg. 52 Min. 55 Sec.
Longitude Feet West of 81 Deg. 41 Min. 52 Sec.

Company: Columbia Gas Transmission

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: RR 2 Box 138	16	60	60	
Sandyville, WV 25275	13 3/8	526	500	
Agent: Paul Amick	10 3/4	762	0	
Inspector: Larry Parrish	8 5/8	1971	1971	
Date Permit Issued: 4-13-00	7	4709	4709	
Date Well Work Commenced: 5-13-00	4 1/2	4725	4725	
Date Well Work Completed: 3-15-01				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 4822'				
Fresh Water Depth (ft.): None Reported				
Salt Water Depth (ft.): 1150, 1230'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

RECEIVED
Office of Oil and Gas
Permitting
MAY 10 2001
WV Division of
Environmental Protection

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 4806' - 4822'
 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

* Gas Storage Well
 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.

Signed: *John V. McCallister*
 By: John V. McCallister
 Date: 4-12-01

MAY 18 2001

JAC 0497 W

6-13-01 Installed new API 5K well head

7-21-01 Stimulated Oriskany sand w/
12 bbls 28% HCl, 371 bbls H₂O,
146 mscf N₂, 30,208# 20/40 sand

All fluids hauled to L.A.O. in Wheeling, WV