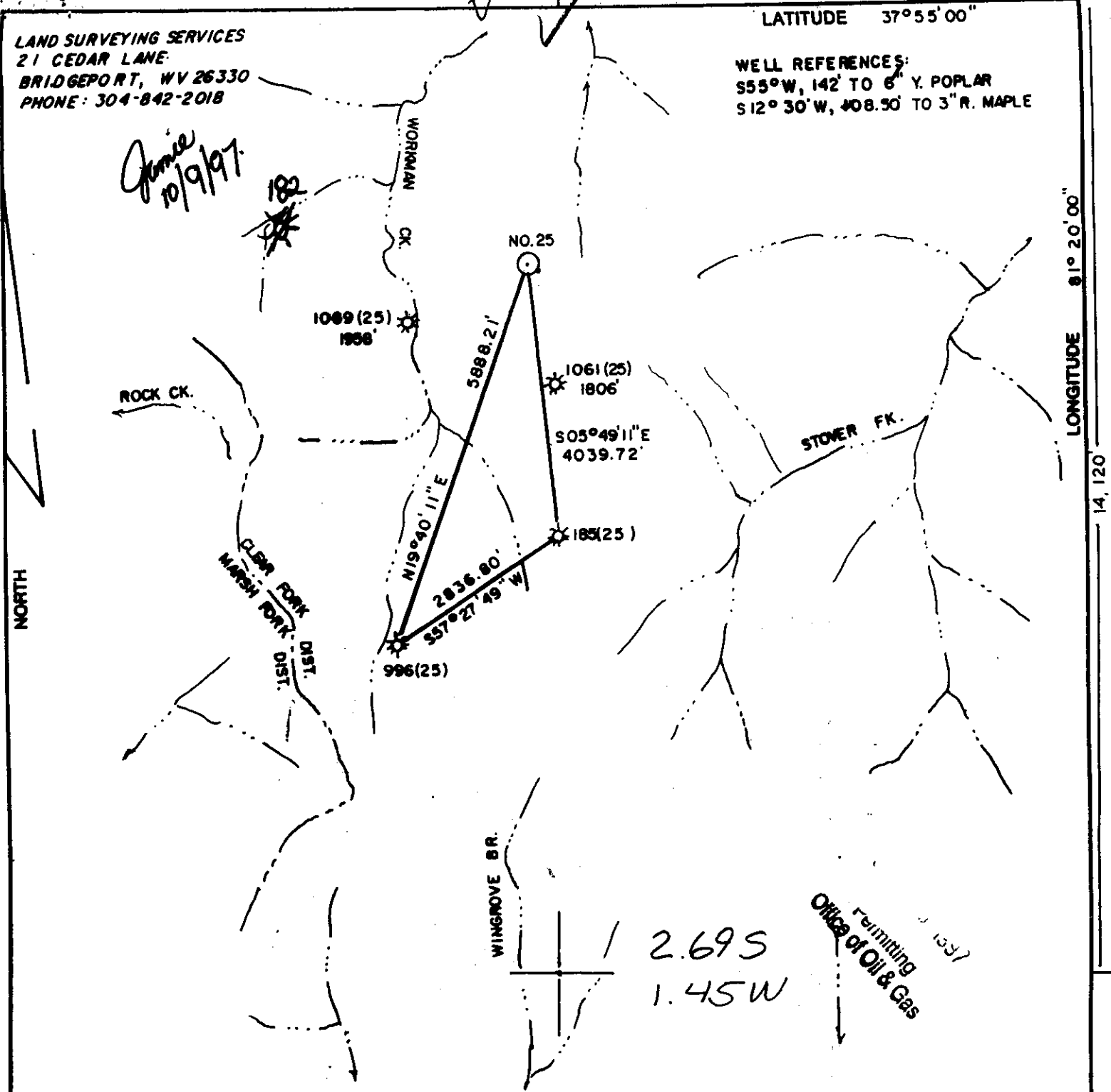


LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

7800
LATITUDE 37°55'00"

WELL REFERENCES:
S55°W, 142' TO 6" Y. POPLAR
S12°30'W, 408.50' TO 3" R. MAPLE

Janice
10/9/97



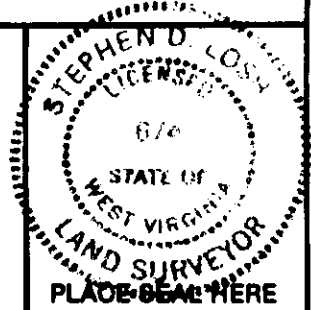
LONGITUDE 81°20'00"
14, 120

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1 in 2500
PROVEN SOURCE OF ELEVATION Exist. well #996
Elev. = 2371.04

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) _____
R.P.E. _____ I.L.S. 674
Stephen D. Losh



WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506



DATE September 12 19 97
OPERATOR'S WELL NO. Rowland Land 25
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 2387' WATERSHED Workman Creek
DISTRICT Clear Fork COUNTY Raleigh
QUADRANGLE Pax 7.5 min.
SURFACE OWNER Rowland Land Company (Tract #601) ACREAGE 656.075
OIL & GAS ROYALTY OWNER Rowland Land Company LEASE ACREAGE 33,000

LEASE NO. _____
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Gordon ESTIMATED DEPTH 4150'
WELL OPERATOR Dominion Appalachian Development DESIGNATED AGENT John Haskins
ADDRESS P. O. Drawer R ADDRESS P. O. Drawer R
Jane Lew, WV 26378 Jane Lew, WV 26378

OCT 10 1997

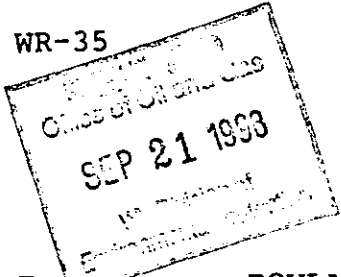
6-6 248

FORM WV-6

COUNTY NAME PERMIT



WR-35



06-Oct-97

API # 47- 81-01111

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

Well Operator's Report of Well Work

Farm name: ROWLAND LAND CO. Operator Well No.: ROWLAND #25

LOCATION: Elevation: 2,387.00 Quadrangle: PAX

District: CLEAR FORK County: RALEIGH
Latitude: 14120 Feet South of 37 Deg. 55Min. 0 Sec.
Longitude 7800 Feet West of 81 Deg. 20 Min. 0 Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. DRAWER R
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON
Permit Issued: 10/09/97
Well work Commenced: 10/30/97
Well work Completed: 11/13/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3730'
Fresh water depths (ft) 70', 2730',
2760'
Salt water depths (ft) _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	30'	0	
7"	967'	967'	150 sks
4 1/2"	3656'	3656'	135 sks

Is coal being mined in area (Y/N)?
Coal Depths (ft): 30-32', 65-70',
275-278', 460-463'.

OPEN FLOW DATA

Producing formation Weir Pay zone depth (ft) 3389-3524
Gas: Initial open flow 47 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 189 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 18 Hours
Static rock Pressure 738 psig (surface pressure) after 168 Hours

Second producing formation Big Lime Pay zone depth (ft) 3095-3190
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 231 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 18 Hours
Static rock Pressure 650 psig (surface pressure) after 168 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: Larry J. Cavallo
DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO; MANAGER OF ENGINEERING
Date: 2/6/98

SEP 2 5 1998

1	STAGE(S)	75 Q Foam	FRAC	DATE 11/13/97		
ZONES	PERFS	HOLES	BBL	BP	ISIP	
Weir	3389-3524	22	430	1466	887	
Big Lime	3095-3190	8	71	1970	45	

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
OVERBURDEN			0	10	
SANDY SHALE			10	30	
COAL			30	32	
SANDY SHALE			32	65	
COAL			65	70	
SANDSTONE			70	275	
COAL			275	278	
SANDY SHALE			278	415	
SHALE			415	460	
COAL			460	463	
SANDY SHALE			463	523	
SHALE			523	538	
SANDY SHALE			538	606	
SHALE			606	616	
SANDY SHALE			616	741	
SANDSTONE			741	896	
SANDY SHALE			896	926	
SANDSTONE			926	1040	
SANDY SHALE			1040	1100	
SANDSTONE			1100	1430	
SANDY SHALE			1430	1500	
SANDSTONE			1500	1700	
SANDY SHALE			1700	2065	
RAVENCLIFF			2065	2103	
SANDY SHALE			2103	2275	
UPPER MAXTON			2275	2355	
SANDY SHALE			2355	2525	
MID MAXTON			2525	2570	
SANDY SHALE			2570	2670	
LOWER MAXTON			2670	2755	
SANDY SHALE			2755	2815	
LIME			2815	3245	
BIG INJUN			3245	3305	
SANSTONE			3305	3405	
WEIR			3405	3540	
SANDY SHALE			3540	3730	
TD					

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

5735

Well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC. 47850 (1) 537

24333

Operator's Well Number: ROWLAND #25 () 3) Elevation: 2387'

Well type: (a) Oil ___ / or Gas X /

Issued 10/09/97.

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

Expires 10/09/99

Proposed Target Formation(s): WEIR 387

RECEIVED
Environmental Protection
SEP 25 1997

6) Proposed Total Depth: 3690 feet

7) Approximate fresh water strata depths: 60', 160', 290'

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 50', 280', 300', 450', 710', 910'

Permitting
Office of Oil & Gas

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

11) Proposed Well Work: DRill and Stimulate Gas Well

12)

CASING AND TUBING PROGRAM

Modified

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	9 5/8"			30'	30'	NO CEMENT
Fresh Water						
Coal	7"		17#	960'	960'	38 CSR 18-11.3
Intermediate						
Production	4 1/2"	J-55	10.5#	3640'	3640'	38 CSR 18-11.2.2
Tubing						
Liners						

38 CSR 18-11.1

PACKERS : Kind _____
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 _____ Agent
(Type)

1936
31