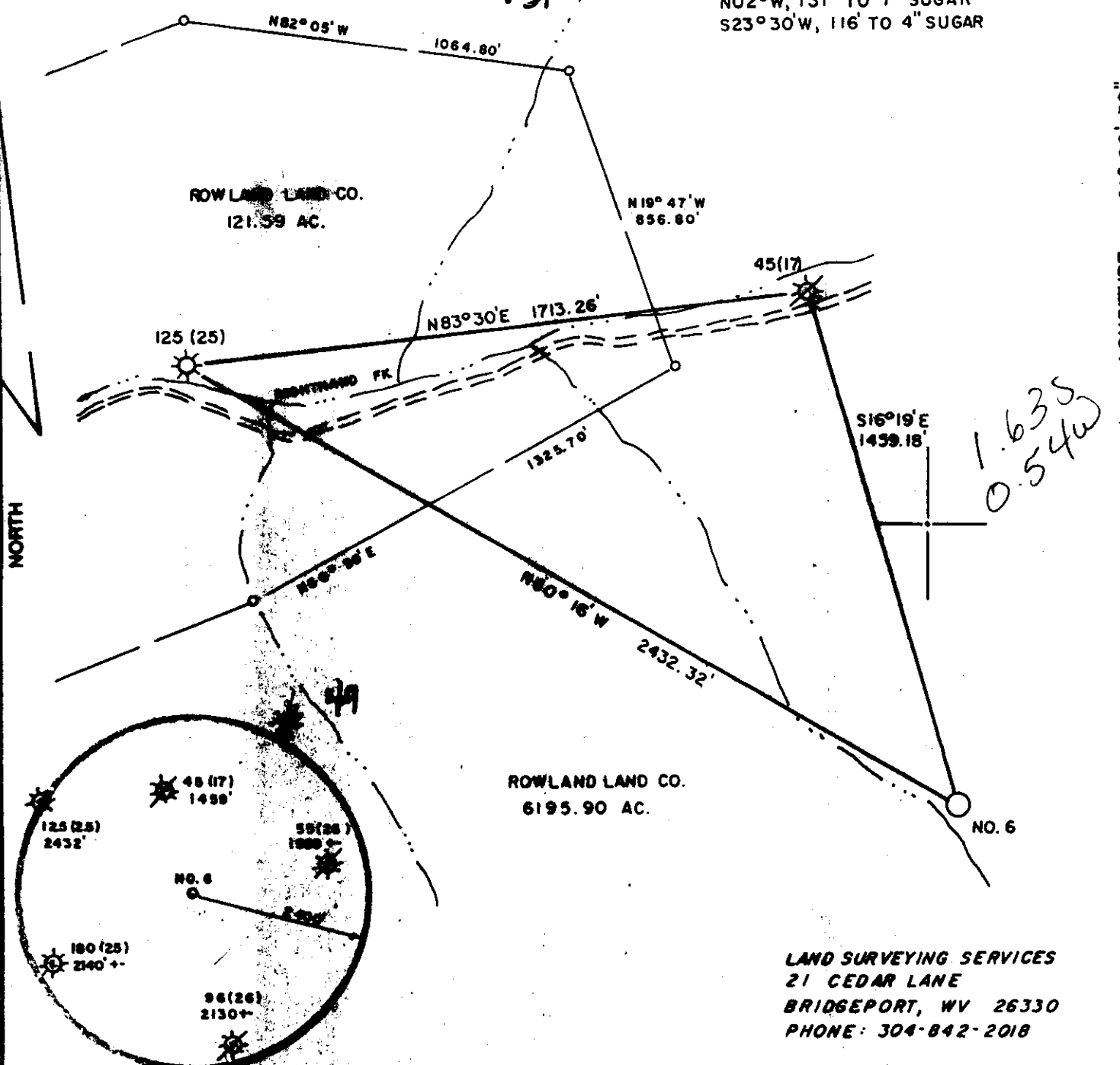


LATITUDE 37° 52' 30"

WELL REFERENCES:  
N02°W, 131' TO 7" SUGAR  
S23°30'W, 116' TO 4" SUGAR

*John Haskins*



LONGITUDE 81° 22' 30"

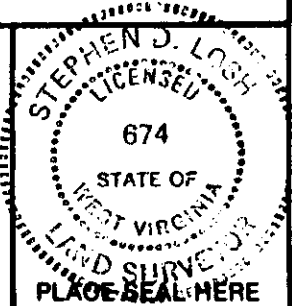
LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 2500  
 PROVEN SOURCE OF ELEVATION EXIST. WELL 125  
 ELEV. = 1756.70'

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 26, 19 96  
 OPERATOR'S WELL NO. ROWLAND LAND NO. 6  
 API WELL NO.

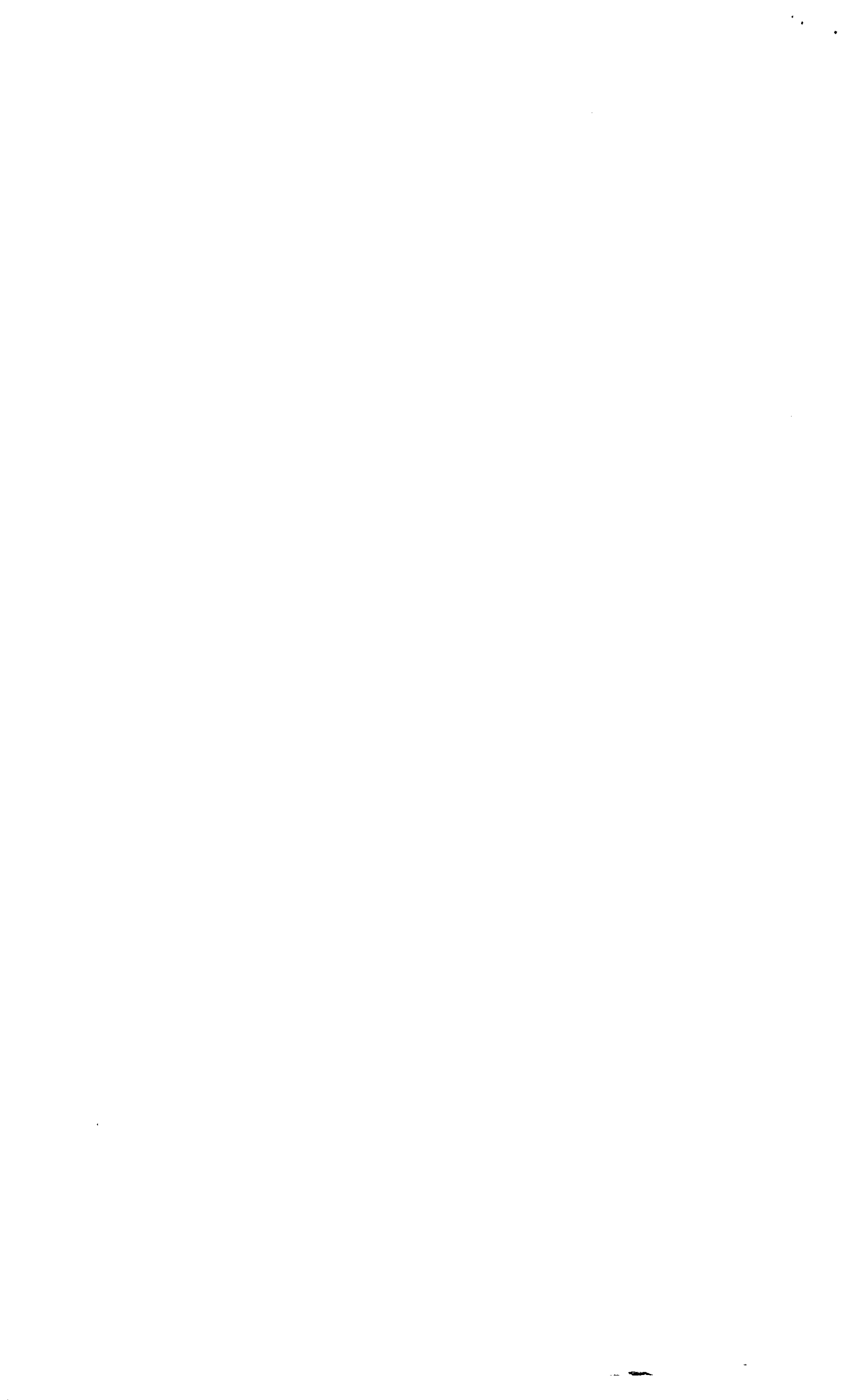
WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 2191' WATERSHED RIGHTHAND FORK OF ROCK CREEK  
 DISTRICT MARSH FORK COUNTY RALEIGH  
 QUADRANGLE ARNETT 7.5 min.  
 SURFACE OWNER ROWLAND LAND CO. ACREAGE 6195.90  
 OIL & GAS ROYALTY OWNER ROWLAND LAND CO. LEASE ACREAGE 33,000

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6 248

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION GORDON ESTIMATED DEPTH 4040  
 WELL OPERATOR DOMINION APPALACHIAN DEVELOPMENT DESIGNATED AGENT JOHN HASKINS  
 ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R  
 JANE LEW, WV 26378 5735 JANE LEW, WV 26378

MAY 17 1996

COUNTY NAME PERMIT





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

Reviewed AS

Well Operator's Report of Well Work

Farm name: Rowland Land Co. Operator Well No.: Rowland Land #6 (11414)

LOCATION: Elevation: 2191' Quadrangle: Arnett 7.5min.

District: Marsh Fork County: Raleigh  
Latitude: 2950 Feet South of 37 Deg. 52 Min. 30 Sec.  
Longitude 8560 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: Dominion Exploration & Production, Inc.  
Dominion Appalachian Development, Inc.

P O Box 1-248  
Jane Lew, WV 26378

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: <u>Rodney J. Biggs</u>				
Inspector: <u>Rodney Dillon</u>				
Date Permit Issued: <u>03/15/00</u>				
Date Well Work Commenced: <u>02/06/01</u>	<u>See</u>	<u>Original</u>	<u>WR-35</u>	<u>for</u>
Date Well Work Completed: <u>02/07/2001</u>	<u>existing</u>	<u>casing</u>	<u>program</u>	
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary Cable <input checked="" type="checkbox"/> Rig				
Total Depth (feet):				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				

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Environmental Protection

OPEN FLOW DATA Made Saltwater, Squeezed off Perfs  
Re-established existing production

Producing formation Maxton Pay zone depth (ft) 2553-2559'

Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 0 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 20 Hours  
Static rock Pressure 0 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.

Signed: Bob Byrri  
By: \_\_\_\_\_  
Date: 4/16/01

MAY 4 2001

ME

RA 1031 F

COMPANY/WELL NO.: ROWLAND #6

02/06/01 PLAN TO PERF MAXTON THIS A.M. FRAC SCHEDULED FOR 27/01

RIG UP RAN GANNA RAY-CCL LOG, PERF LOWER MAXTON 2553-59 12 HOLES:

2574-80 8 HOLES, SET SOLID BRIDGE PLUG AT 2610'. CARPER SWAB WELL TO 2610'.

02/07/01 PERF LOWER MAXTON 2553-59 12 HOLES, 2374-80 8 HOLES, SET SOLID BRIDGE PLUG AT 2610'. BJ

FOAM FRAC 70 Q BREAK 400#, AVG RATE 20 BPM, AVG PSI 1359#, HHP 240, ISIP 1133#, 5 MIN 990#. USED 500

GAL 15% ACID, 121,900 SCF N2, 25,000# 20/40 SAND, 153 BBLS H2O. OPEN TO PIT THRU

1/2" CHOKE AT 2 PM.

04/06/2001

NOV 04 1996

Permitting  
Office of Oil & Gas

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. LTD. Operator Well No.: ROWLAND  
LOCATION: Elevation: 2,191.00 Quadrangle: ARNETT  
District: MARSH FORK County: RALEIGH  
Latitude: 8560 Feet South of 37 Deg. 52Min. 30  
Longitude 2950 Feet West of 81 Deg. 22 Min. 30

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Division of

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

Agent: JOHN T. HASKINS

Inspector: RODNEY DILLON  
Permit Issued: 05/17/96  
Well work Commenced: 06/01/96  
Well work Completed: 06/07/96  
Verbal Plugging  
Permission granted on: N/A  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 4108'  
Fresh water depths (ft) N/A  
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	30	0	PULLED
8 5/8	1184'	1184'	280 SKS
4 1/2	3993'	3993'	220 SKS

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

OPEN FLOW DATA

Producing formation WEIR Pay zone depth (ft) 3244-3254  
Gas: Initial open flow TSTM MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 239 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 48 Hours  
Static rock Pressure 325 psig (surface pressure) after 168 Hours

Second producing formation WEIR Pay zone depth (ft) 2844-2850  
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

\* COMMINGLED

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.

Larry J. Cavallo  
For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO: SENIOR GEOLOGIST  
Date: 10/31/96

NOV 8 1996

@ STAGE(S) & Q FOAM & HCL FRAC

DATE 6/14/96

ONES	PERFS	HOLES	BBL	BIP	ISISP
WEIR	3244-3254	11	560	750	1350
BIG LIME	2844-2850	13	71	288	2100

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
KB-GL			0	10	
FILL/SOIL	VARIED	SOFT	10	45	
SAND & SHALE	BROWN	SOFT	45	521	GAS CK @ 3401-ORDOR
SAND	WHITE/H. BROWN	HARD	521	974	GAS CK @ TD - NO SHOW
SAND & SHALE	GRAY	HARD	974	984	
SAND	WHITE	HARD	984	1190	
SAND & SHALE	GRAY	SOFT	1190	1217	
SAND & SHALE	GRAY	HARD	1217	1725	
SAND	BROWN	HARD	1725	1749	
SAND & SHALE	BROWN/RED	SOFT	1749	1860	
WHITE SAND	WHITE	SOFT	1860	1896	
SHALE	GRAY	SOFT	1896	1928	
RAVENCLIFF	BROWN	SOFT	1928	2001	
SHALE	RED	SOFT	2001	2022	
LIMESTONE	GRAY	HARD	2022	2030	
MAXTONS	GRAY	HARD	2030	2608	
SHALE	GRAY	SOFT	2608	2640	
BIG LIME	GRAY	HARD	2640	3168	
INJUN	RED	SOFT	3168	3200	
SAND & SHALE	GRAY	SOFT	3200	3341	
WEIR	BROWN	SOFT	3341	3382	
SAND & SHALE	GRAY	SOFT	3382	4108	
TD				4108	

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

218

- 1) Well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC. 4785 0
- 2) Operator's Well Number: ROWLAND LAND #6 (11414) 3) Elevation: 2191'
- Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- Proposed Target Formation(s): GORDON
- Proposed Total Depth: 4040 feet
- Approximate fresh water strata depths: 80', 450', 960'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 1120
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /
- 11) Proposed Well Work: DRILL AND STIMULATE NEW WELL
- 12)

Issued 05/17/96  
Expires 05/17/98

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Permitting Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4		27#	30	0	PULLED
Fresh Water						38 CSR 18-11.3
Coal	8 5/8		20#	1180	1180	38 CSR 18-11.2.2
Intermediate						
Production	4 1/2	M-65	9.5 #	4000	4000	38 CSR 18-11.1
Tubing						38 CSR 18-11.1
Liners						

PACKERS : Kind \_\_\_\_\_  
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 Agent

03737  
15



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MAY 17 1996

1) Date: MAY 3, 1996  
2) Operator's well number  
ROWLAND LAND, #6 (11414) (1) AS-WW  
3) APT Well No: 47 - 081 - 1031  
State County Permit

Office of Permits  
**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS**

**NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- (a) Name ROWLAND LAND CO., LTD Name N/A  
Address SUITE 609-405 CAPITOL ST., CHARLESTON, WV 25301 Address \_\_\_\_\_
- (b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_ Name SAME AS SURFACE  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_
- 6) Inspector RODNEY DILLON (c) Coal Lessee with Declaration  
Address BOX 131 Name CONSOLIDATION COAL COMPANY  
BRADLEY, WV 25818 Address PO BOX 1289 (29 COLLEGE DRIVE)  
Telephone (304)- 256-6946 BLUEFIELD, WV 24605 ATTN: ED FANNING

**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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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 22-6 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 DOMINION APPALACHIAN DEVELOPMENT, INC.  
By: [Signature] JOHN HASKINS  
Its: SENIOR VICE PRESIDENT  
Address PO DRAWER R  
JANE LEW, WV 26378  
Telephone (304) 884-7881

Subscribed and sworn before me this 15 day of May, 1996

[Signature]  
My commission expires May 14, 2000

