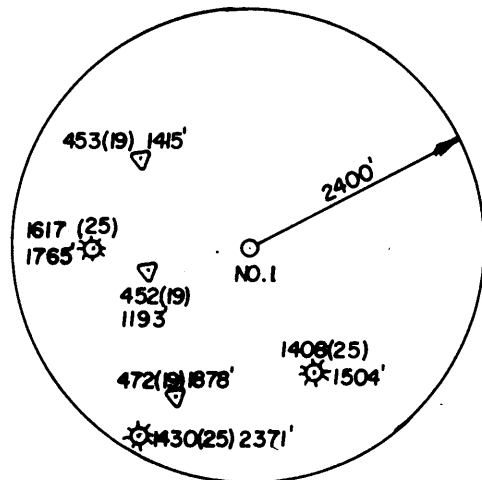


WELL REFERENCES:  
 S64W 201' TO 6" CHESTNUT OAK  
 N21°30W, 143' TO 2" BLACK OAK

R. E. SMITH HRS.  
 50.51 AC. +-

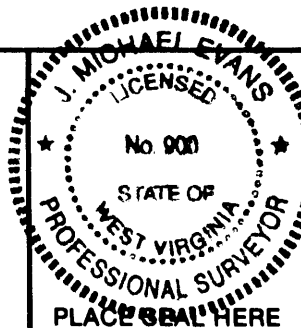


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION ROAD JCT. 6045' SE AT ELEV. 812'

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) J. Michael Evans

R.P.E. \_\_\_\_\_ L.L.S. 900



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



DATE MARCH 8, 19 97  
 OPERATOR'S WELL NO. R. E. SMITH NO. 1  
 API WELL NO. \_\_\_\_\_

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

LOCATION: ELEVATION 1162' WATERSHED DOE RUN  
 DISTRICT MCELROY COUNTY TYLER  
 QUADRANGLE SHIRLEY 7.5'

SURFACE OWNER TERRENCE R. FRASER ACREAGE 59.62  
 OIL & GAS ROYALTY OWNER R. E. SMITH HRS. LEASE ACREAGE 50.51  
 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) 6-6 92

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION BENSON ESTIMATED DEPTH 5300'  
 WELL OPERATOR DOMINION APPALACHIAN DEVELOPMENT DESIGNATED AGENT JOHN HASKINS  
 ADDRESS P. O. DRAWER R INC. ADDRESS P. O. DRAWER R  
 JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

FORM WV-6

COUNTY NAME  
 PERMIT

JUL 3 1997

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

Well Operator's Report of Well Work

Farm name: FRASER, TERRANCE R. Operator Well No.: R. E. SMITH #1

LOCATION: Elevation: 1,162.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER  
Latitude: 10015 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 9300 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: JOHN T. HASKINS

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/02/97  
Well work Commenced: 7/25/97  
Well work Completed: 8/08/97  
Verbal Plugging  
Permission granted on: N/A  
Rotary x Cable Rig  
Total Depth (feet) 5299'  
Fresh water depths (ft) 45', 1665'  
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	PULL
8 5/8"	1020.75'	1020.75'	240 sks
7"	1595.50'	1595.50'	125 sks
4 1/2"	5272'	5272'	140 sks

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 520'

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5136-5141  
Gas: Initial open flow 133 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 145 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 8 Hours  
Static rock Pressure 1025 psig (surface pressure) after 72 Hours

Second producing formation Riley Pay zone depth (ft) 4696-4721  
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; Manager of Engineer  
Date: 10/9/97

OCT 17 1997

2	STAGE(S)	20# gel	FRAC	DATE	8/4/97
ZONES	PERFS	HOLES	BBL	BP	ISIP
Benson	5136-5141	12	396	2505	1700
Riley	4696-4723	11	321	3516	3800

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
KB L			0	10	
Red Clay	Red	Soft	10	12	
Sand & Shale	Gray	Medium	12	22	
Red Clay	Red	Soft	22	26	
Sand & Shale	Gray	Medium	26	80	Hole wet @ 45' 1
RR	Red	Soft	80	95	stream
Sand & Shale & RR	Gray Red	Medium	95	251	
Sand	Gray	Hard	251	280	
Sand & Shale & RR	Gray Red	Medium	280	356	
Sand	Gray	Hard	356	384	
Sand & Shale & RR	Gray Red	Medium	384	408	
Sand	Gray	Hard	408	469	
Sand & Shale & RR	Gray Red	Medium	469	520	
Coal & Shale	Black	Soft	520	524	
Sand & Shale & RR	Gray Red	Medium	524	546	
Sand	Gray	Hard	546	630	
Sand & Shale & RR	Gray Red	Medium	630	673	
Sand & Shale	Gray	Hard	673	690	
Shale & RR	Gray Red	Medium	690	745	
Sand	Gray	Hard	745	765	
Shale & RR	Gray/RR	Medium/Soft	765	1033	Dusting @ 1055'
Sand	Gray	Hard	1033	1060	
Sand & Shale & RR	Gray/Red	Medium	1060	1375	
Sand	Gray	Hard	1375	1435	
Sand & Shale	Gray	Medium	1435	1573	
Sand	White Gray	Hard	1573	1622	
Sand & Shale	Gray	Medium	1622	1659	Damp 1665'
Sand	Gray	Hard	1659	1703	Oil odor 2115'
Sand & Shale	Gray	Medium	1703	1978	Gas CK @ 2135 Oil
Lime & Shale	Gray	Hard	1978	2000	odor
Sand & Shale	Gray	Medium	2000	2022	Gas CK @ 2289 N.S
Big Lime	Gray	Hard	2022	2103	Gas Ck @ 4127 N.S
Injun	Gray	Hard	2103	2168	Vapor
Sand & Shale	Gray	Medium	2168	2184	Gas CK@ 4775 N.S.
Sand	Gray	Hard	2184	2237	Gas Ck@ 5176 N.S.
Sand & Shale	Gray	Medium	2237	2350	Gas TD 80/10- 1"
Sand	Gray	Hard	2350	2475	W/H2O
Sand & Shale	Gray	Medium	2475	4675	Gas CK DCS 100/10
Sand	Gray	Hard	4675	4700	1" W/ H2O
Sand & Shale	Gray	Medium	4700	4725	
Sand & Shale	Gray Brown	Hard	4725	5116	
Benson	Dark Brown	Medium	5116	5125	
Sand & Shale	Gray	Medium	5125	5299	
			TD	5299	

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

- 1) Well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC. 4785° (S) 607
- 2) Operator's Well Number: R. E. SMITH #1 3) Elevation: 1162'
- 4) Well type: (a) Oil \_\_\_ / or Gas X /
- (b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- Proposed Target Formation(s): BENSON 435
- Proposed Total Depth: 5300' feet
- Approximate fresh water strata depths: 60'
- Approximate salt water depths: 900'
- 9) Approximate coal seam depths: 825'
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /
- 11) Proposed Well Work: DRILL AND STIMULATE NEW WELL.
- 12)

Issued 07/02/97  
Expires 07/02/99

23853

RECEIVED  
Division of Environmental Protection  
JUN 16 1997  
Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		27#	120' 88'	120' <del>88'</del> CTS	38 CSR 18-11.3
Fresh Water						120'-0.1c mbl
Coal						0.1c mbl
Intermediate	8 5/8"		20#	950'	950' CTS	38 CSR 18-11.2.2
Production	4 1/2"	M-65	9.5#/ft	5250'	5250'	38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

1682  
13

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)

RECEIVED

Permitting  
Office of Oil & Gas

1) Date: JUNE 05, 1997  
2) Operator's well number  
R. E. SMITH #1 (11479)  
3) API Well No: 47 - 095 - 1682  
State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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 TERRANCE R. FRASER Name N/A  
 Address 401 LOCUST AVE Address \_\_\_\_\_  
NEWEL, WV 26050  
 (b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
 Address \_\_\_\_\_ Name None with Declaration  
 Address \_\_\_\_\_  
 (c) Name \_\_\_\_\_ Name \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_
- 6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration  
 Address ROUTE 2 BOX 135 Name N/A  
SALEM, WV 26426-0135 Address \_\_\_\_\_  
 Telephone (304)- 288-4604

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  
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

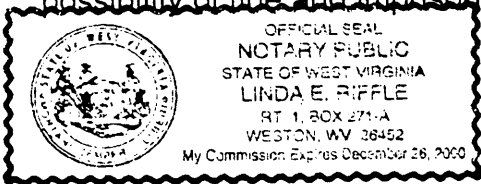
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)  
X 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 T. HASKINS  
 Its: SENIOR VICE PRESIDENT  
 Address P O DRAWER R  
JANE LEW, WV 26378  
 Telephone (304) 884-2000

Subscribed and sworn before me this 6th day of June, 19 97

[Signature] Notary Public  
 My commission expires December 24, 2000