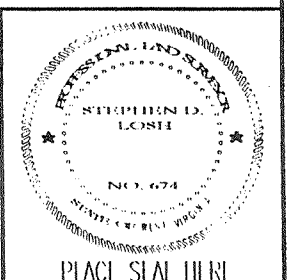


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: _____
 DRAWING NUMBER: DOMMCD1.PCS
 SCALE: 1" = 500'
 MINIMUM DETAIL OF ACCURACY: 1 IN 200
 PROVEN SOURCE OF ELEVATION: DGPS SURVLY 04/12/99
SUBMITTER SYLLIM

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

(SIGN'D) [Signature]
 STEPHEN D. LOSH, P.S. #674



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 110 McJUNKIN ROAD
 NITRO, WV 25143 2506

FORM WW 6

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

LOCATION: ELEVATION 919.50' WATERSHED ROBINSON FORK
 DISTRICT MCCLELLAN COUNTY DODDRIDGE
 QUADRANGLE SALT M PLAT NUMBER _____

SURFACE OWNER SILVIA DOUGLAS MCDONALD ACREAGE 36
 OIL & GAS ROYALTY OWNER SILVIA DOUGLAS MCDONALD PLAT ACREAGE 36

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULANT PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION BENSON PLUG & ABANDON CLEAN OIL & R/L PLUG
 ESTIMATED DEPTH 5200'

WELL OPERATOR DOMINION APPALACHIAN DEVELOPMENT DESIGNATED AGENT JOHN HASKINS
 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378 ADDRESS P. O. BOX 1248 JANE LEW, WV 26378

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304 842 2018 OR 842 5162

DATE: APRIL 13, 1999
 OPERATORS WELL NO.: MCDONALD NO. 1
 API WELL NO. 41-017-04516
 STATE COUNTY PERMIT

COUNTY NAME DODD
 PERMIT 1516

6-6 99 Smithton-Flint-Sedalia

RECEIVED
 Office of Oil & Gas
 Permitting
 JAN 03 2000
 WV Division of
 Environmental Protection

18-May-99
 API # 47- 17-04516

State of West Virginia
 Division of Environmental Protection Reviewed K
 Section of Oil and Gas
 Well Operator's Report of Well Work

Farm name: MCDONALD, STEVEN Operator Well No.: MCDONALD 1

LOCATION: Elevation: 919.00 Quadrangle: SALEM

District: MCCLELLAN County: DODDRIDGE
 Latitude: 595 Feet South of 39 Deg. 20Min. 0 Sec.
 Longitude 8650 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: DOMINION APPALACHIAN DEVE
 P. O. BOX 1248
 JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: MIKE UNDERWOOD
 Permit Issued: 05/21/99
 Well work Commenced: 10/18/99
 Well work Completed: 11/02/99
 Verbal Plugging
 Permission granted on:
 Rotary X Cable _____ Rig
 Total Depth (feet) 5073'
 Fresh water depths (ft) 20', 85',
 212'
 Salt water depths (ft) None reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	132'	132'	65 sacks
8 5/8	1240'	1240'	270 sacks
4 1/2	5116'	5116'	200 sacks

Is coal being mined in area (Y/N)? N
 Coal Depths (ft): 188-198', 722-730'

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5020-5028'
 Gas: Initial open flow 15 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 332 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 5 Hours
 Static rock Pressure 1500 psig (surface pressure) after 72 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.

Larry J. Cavallo
 For: DOMINION APPALACHIAN DEVELOPMENT, INC.
 By: Larry J. Cavallo; Manager of Engineer
 Date: 12/30/99

FEB 25 2000

D000 4510

1 STAGE(S) 60 Q Foam FRAC DATE 11/02/99
 ZONES PERFS HOLES BBL BP ISIP
 Benson 5020-5028' 18 526 (60Q) 2485 3200

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
Clay	Red	Soft	0	10	
S. Rock	Red	Soft	10	20	
Sand	Gray/White	Med.	20	35	
RR/Shale	Red/Gray	Soft	35	50	
Sand	Gray	Med	50	65	
Sand/L Shale/RR	Red/Gray	Med	65	85	
Sand	Gray	Hard	85	100	
Sand/Shale	Gray	Med	100	120	
Sand	Gray/White	Med	120	188	
Shale/Coal	Gray/Black	Soft	188	198	
Sand	Gray	Med	198	230	
Sand/Shale	Gray	Med	230	584	
Shale	Gray	Soft	584	647	
Sand	White	Hard	647	652	
Shale	Gray	Soft	652	673	
Sand	Gray	Hard	673	678	
Sand/Shale	Gray	Med	678	722	
Coal	Black	Soft	722	730	
Sand/Shale	Gray	Med	730	904	
RR/Shale	Red/Shale	Soft/Med	904	930	
Sand/Shale	Gray	Med	930	940	
RR/Shale	Red/ Gray	Soft	940	960	
Sand/ Shale	Gray	Med	960	1050	
Sand	Gray/White	Hard	1050	1095	
Sand/Shale	Gray	Med	1095	1515	
Sand	Gray	Med	1515	1570	
Sand/Shale	Gray	Med	1570	1585	
Sand	Gray/white	Med	1585	1635	
Shale	Gray	Med	1635	1680	
Sand/Shale	Gray	Med	1680	1802	
Sand	Gray	Hard	1802	1845	
Shale	Gray	Med	1845	1977	
Sand/Shale	Gray	Hard	1977	1982	
Sand	Gray	Soft	1982	1985	
Shale/Sand	Gray	Hard	1985	2085	
S. Lime	Gray	Soft	2085	2112	
Shale	Gray	Hard	2112	2131	
S. Lime	Gray	Soft	2131	2380	
Shale	Gray	Hard	2380	2396	
njun	Tan	Med	2396	2480	
Sand/Shale	Gray	Med	2480	2496	
Sand	Gray	Med	2496	2680	
Sand/Shale	gray	Med	2680	2710	
Sand	Gray	Med	2710	3400	
Sand/Shale	Gray	Med	3400	3622	
Sand	Gray	Med	3622	3835	
Sand/Shale	Gray	Med	3835	3900	
peechley	Gray	Med	3900	4600	
Sand/Shale	Gray	Med	4600	5012	
Sand Benson	Gray	Med	5012	5032	
Sand/Shale	Gray	Med	5032	5217	
Shale	Gray	Med	5217		TD