

Farm name:

API # 47- 95-01381 W

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

Operator Well No.: 1 TENNANT, ROBERT H. LOCATION: Elevation: 998.00 Quadrangle: SHIRLEY

District: CENTERVILLE

CENTERVILLE County: TYLER 6640 Feet South of 39 Deg. 25Min. 0 Sec. 1650 Feet West of 80 Deg. 50 Min 0 Sec. Latitude: 1650 Longitude

and and a rece wes	C OI 60	Deg. 50 Mi	n. U Sec	•
Company:DOMINION APPALACHIAN DEVE P. O. BOX 1248 JANE LEW, WV 26378-0000	Casing &	Used in	Left	Cement Fill Up
Agent: JOHN T. HASKINS	Tubing	Drilling	in Well	Cu. Ft.
Inspector: MIKE UNDERWOOD Permit Issued: 08/23/99 Well work Commenced: 8/27/99 Well work Completed: 9/02/99 Verbal Plugging Permission granted on: Rotary Cable Rig	Size-			
Total Depth (feet) Fresh water depths (ft)	* No	Change -	See orig	inal WR-3
Salt water depths (ft) Is coal being mined in area (Y/N)? Coal Depths (ft):				

OPEN FLOW DATA

	Producing formation Big Injun	Pay zone depth (ft)2	052-2068
	Gas: Initial open flow 0 MCF/d (Dil: Initial open flow 0	Bb1/d
	ringi open flow 333 MCE/9	Final ones flore	Bbl/d
	rime of open flow between initi	al and final tests	Hours
	Static rock Pressure 60 psig (s	surface pressure) after 12	Hours
	Second producing formation	Pay zone depth (ft)	
	Gas: Initial open flow MCF/d C)il. Initial open flow	Bbl/d
	rinal open flow MCF/4	Final ones flore	Bbl/d
	Time of open flow between initi Static rock Pressure psig (s	al and final tests	Hours
	psig (s	surface pressure) after	Hours
NOTE:	ON BACK OF THIS FORM PUT THE FOI	LOWING: 1). DETAILS OF PER	FORATED

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: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: Larry J. Cavallo; Manager of Engineering
Date: 1,99

One ST	PAGE(S) 75Q Foam	FRAC		DATE 9/2/	/99
ZONES:	PERFS	HOLES	BBL	BP	ISIP
Sandin					
Big Injun	2052-2068'	20	97 foa	ım 3381	2102
EODMA TON	GOLOB	113 DD / GODE			
FORMATION	COLOR	HARD/SOFT	ጥOP	$B \cap T \cap M$	REMARKS

^{*} NO CHANGE - see orginial WR-35

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State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: TENNANT, ROBERT H. Operator Well No.: TEN/KOPPERS #1 LOCATION: Elevation: 998.00 Quadrangle: SHIRLEY District: CENTERVILLE County: TYLER
Latitude: 6640 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 1650 Feet West of 80 Deg. 50 Min. 0 Sec. Company: ANVIL OIL CO., INC. 2099 PLEASANT VALLEY ROAD Casing | Used in Left Cement FAIRMONT, WV 26554-1230 Fill Up Tubing | Drilling | in Well|Cu. Ft.| Agent: JUSTIN L. HENDERSON Size <u>77</u> Inspector: GLEN P. ROBINSON 127 11.3/4 127' 1271 Permit Issued: 03/26/90 2/14/91 Well work Commenced: 472ft³ Well work Completed: 2/18/91 1900 8 5/8 19001 Verbal Plugging 1900'CT5 Permission granted on: N/A Rotary X Cable
Total Depth (feet) 100'
Fresh water depths (ft) Rig 1603ft3 43 5091 N/A 3000 Salt water depths (ft) NONE Is coal being mined in area (Y/N)? N Coal Depths (ft): NONE OPEN FLOW DATA Pay zone depth (ft) 4985-90 BENSON Producing formation Gas: Initial open flow____ MCF/d Oil: Initial open flow____ Bb1/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 4577-78 Pay zone depth (ft) 4603-04 Second producing formation RILEY Gas: Initial open flow MCF/d Oil: Initial open flow Final open flow Final open flow_ MCF/d 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). DETAILURE OF THE FOLLOWING: 1). DE DETAINS OF PERFORATED ETC. 2). THE WELL OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE 2nolism

MIVIL OIL CO., INC.

Date: March 1, 1991

Justin Henderson President

1.) Perforate 4985-90 with 7(.39) holes, 4603-04 with 2(.39) holes, 4577-78 with 2(.39) holes. Stimulate with 536 BBL sand lader fluid, 10,000 # 80/100 mesh, 40,000 # 20/40 mesh, 1000 gal HCL acid, 20 BPM at 2696 PSIG average treating pressure, ISIP- 1777 PSIG.

Water at 100' and 400'

2.) FORMATIONS:

GL - 20/ Dirt Gas checks at 3600'-4/10) !" 20-30' Red rock 4100' 4/10) 1" 30-35' S Shale 4600- 4/10) 1" 35-51' Sand and Shale 5100 20/10)1" 51-65 Sand 65-135' Sand and shale 135-170'SShale 170-180' Sand and red rock 180-671' Sand shale and red rock LOG TOPS 671-1815' Little lime Little lime- 1815' 1871-1881' Sand and Shale 1990' Big lime 1881-2038' Big lime 20501 In.jun 2038-2050' Sand and shale 2050-2136' Injun Weir 22901 Rilev 45651 2136-5151' Sand and Shale Benson 49681 TD 51521

MAR U4 1001
REPT. OF ENERGY

10354

MAR 21 1990

095 138/ Issued 3/26/90 Expues 3/26/92

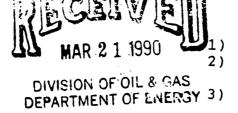
FORM WW-2B DIVISION OF OIL & CAS

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

1) Well O	erator:_	ANVIL O	L COMPANY I	18 NC. 227	<u>on</u>	1.01
1) Well Operator: ANVIL OIL COMPANY INC. 2275 (1) 606 2) Operator's Well Number: TENNANT/KOPPERS WELL NO. 1 3) Elevation: 998						
4) Well ty	pe: (a)	0i1 <u>X</u> /	or Ga	as_X/	3) E	llevation:
			Production		round Stora Shall	ge/
5) Propose	d Target	Formatio	n(s):B	ENSON 435	Olidii	
			100			
			strata dep		· 95 ·	
				N/A		
			pths:N			
					ive mine?	Yes/ No <u>X</u> /
11) Proposed	i Well Wo	rk: DRILI	. & STIMULAT	E 1/2.111	1.10	res/ No_X_/
12)		•	:	prewa		
TYPE				ING PROGRAM		
1.16	<u>s</u>	PECIFICAT	IONS	FOOTAGE II	TERVALS	CEMENT
He'9/29/89	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11_3/4			120'	120'	CTS
Fresh Water	8 5/8		23	1870'	1870'	By rule 38 csr 18-11.3
Coal						33, 10 11.5
Intermediate						
Production	415		10½	5100'	5100'	By rule 38 csr 18-11.1
Tubing						- CSI 10-11.1
liners						
PACKERS : Kind Size						
	hs set					
Fee(s) pe	nd:	1	of Oil ar	d Cas Use	Only amation Fund	WPCP
_ Plat WW-9 WW-2B Bond Bond Agent Agent				131		

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Date:	9-28-89	
Opera	or's well number	
Tennar	:/Koppers #1	
API W	ell No: 47 - 095 - 1381	
	State - County - Permit	_

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK FERMIT

4)	Surface Owner(s) to be served: (a) Name Robert H. Tennant Address Box 9, Ross Run Rd.	5) (a) Coal Operator: NameAddress
	Alma, WV 26320	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	NameAddress
		Address
	(c) Name	
	Address	Name
		Address
6)	Inspector Clam D. Dalita	
0,	Inspector Glen P. Robinson	(c) Coal Lessee with Declaration
	Address Route 1	
	Mineral Wells, WV 26150 Telephone (304)-	Address
	1010phone (304)-	
	TO THE PERSON(S) NAMED AD	OIT THE TAXABLE TO TH
	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE THAT:
Secti I hav accom	panying documents pages 1 through Personal Service (Affidavit at Certified Mail (Postmarked post Publication (Notice of Publication)	extract oil and gas <u>OR</u> ed by Chapter 22B, Article 1, ia (see page 2) hapter 22B of the <u>West Virginia Code</u> application, a location plat, and on the above named parties, by: ttached) stal receipt attached)
famil attacl respon is tru inform	mments, and that based on my inquires in the information of the possibility of the possib	It issued under this application. I have personally examined and am on this application form and all y of those individuals immediately on, I believe that the information and penalties for submitting false of fine and imprisonment Anvil Oil Co. Inc. Henderson 1230 WW 26554-1230
Му соп	mission expires 1/8/40	Notary Public
	7 1/3/10	