



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

Well Operator's Report of Well Work

Farm name: HILL, JAMES & WILMA

Operator Well No.: DOAK #1

LOCATION: Elevation: 906.00 Quadrangle: SMITHBURG

District: GRANT

County: DODDRIDGE

Latitude: 12590 Feet South of 39 Deg. 22Min. 30 Sec.

Longitude 10750 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: PETROLEUM DEVELOPMENT COR

P. O. BOX 26

BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: MIKE UNDERWOOD

Permit Issued: 05/14/93

Well work Commenced: 06/04/93

Well work Completed:

06/10/93

Verbal Plugging

Permission granted on:__

Rotary x Cable Rig
Total Depth (feet) 5058

50581 Fresh water depths (ft)

25; 230

Salt water depths (ft)

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 210-213

Casing & Tubing	Used in Drilling	•	Cement Fill Up Cu. Ft.
Size			
11 3/4"	179	179'	90 sks
8 5/8"	1489'	1489'	356 sks
4 1/2"	5020	5020'	552 sks
enterprise contrary		Constitution of the Consti	

OPEN FLOW DATA

4413-4414.5 Producing formation Benson/Riley Pay zone depth (ft) 4906-4907.5

Gas: Initial open flow 125 MCF/d Oil: Initial open flow 0 Bbl/d Final open flow 411 MCF/d Final open flow 0 Bbl/d Time of open flow between initial and final tests 4 Hours

Static rock Pressure 450 psig (surface pressure) after 72 Second producing formation Gordon Pay zone depth (ft) 2565-2568

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow co-mingled 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.

For: PETROLEUM DEVELOPMENT CORP.

Eric R. Stearns

Date: <u>July 2, 1993</u>

ecorded

FORMATION

(基) (4)		
Benson Riley	6 (4413' - 4414') 100 6 (4906' - 4907')	700 500 94
) Gordon	13 (2565'- 2568') 50	400 500 65
	WELL LOG	
		TOPOLI C CALM
	en e	REMARKS: FRESH & SALT
RMATION	TOP FEET BOTTOM FEET	WATER, COAL, OIL & GAS
	0 10	
- GL	10 1604	1/2" water @25'
nd, shale, RR	1604 1671	1/2" water @230'
kton	1671 1783	Coal 210' - 213'
nd, shale	1783 1880	gas chk @ 1706' No Show
g Lime	1880 1884	gas chk @ 1882' 2/10 -2" w/water
nd, shale		gas clik @ 1002 2/10 2 1/1002
gInjun		gas chk @ 2098' 4/10 -2" w/water
nd, shale	2002 2159	gas cirk & 2000 4/10 2 4/40002
ir	2159 2209	gas chk @ 2251' 2/10 -2" w/water
nd, shale	2209 2330	gas cnk @ 2231 2/10 -2 w/water
rea	2330 2356	gas chk @ 2405' 2/10 -2" w/water
nd, shale	2356 2545	gas chk @ 2403 2/10 22 W/Water
rdon	2545 2556	gas chk @ 2602' 6/10 -7" w/water
nd, shale	2556 2845	gas chk @ 2002 0/10 -/ W/Water
h	2845 2892	gas chk @ 2991' 4/10 -7" w/water
nd, shale	2892 3200	gas chk @ 2991 4/10 -/ W/Water
rren	3200 3320	
nd, shale	3320 3382	gas chk @ 3395' 2/10 -7" w/water
eechley	3382 3650	gas chk @ 3393 2/10 -/ w/water
nd, shale	3650 3696	
lltown	3696 4090	
nd, shale	4090 4109	
adford	4109 4216	
nd, shale	4216 4378	
ley	4378 4828	gas chk @ 4778' 2/10 -7" w/water
nd, shale	4828 4884	
nson	4884 4938	gas chk @ 4934' 130/10 -2" w/water
ind, shale	4938 5056	Driller TD
	5058	Logger TD
		gas chk @ 5056' 140/10 -2" w/water
~ .		gas chk @ collars 140/10 -2" w/water

80/100 SKS ACID GAL

N2 (MCF)

DF= 424 DFT= 435 WV Division of Environmental Protection

FORM WW-2B

STATE OF WEST VIRGINIA EXPLICATION

OF ENERGY, DIVISION OF OIL AND GAS

L WORK PERMIT APPLICATION

			we warn wo	1111 1 111111 1	<u> reelivation</u>	•	
1)	Well Open	ator:	4	Petroleum	Development Co	poration 33	8200 (3) 614
2)	Operator	's Well h	Number:	Do	oak #1	3)	Elevation: 906'
4)	Well type	e: (a) (oil_/	or . Gas	<u>X</u> /		
		(b)	If Gas:		X/ Undergr	O h = 3	age/ low <u>X</u> /
5)	Proposed	Target 1	Formation	n(s):A	exander Sand		
6)	Proposed Total Depth: 5800 feet						
7)	Approxima	ate fres	h water s	strata dept	hs: <u>25'</u> ,	180', 1250'	
8)	Approximate salt water depths: None Reported						
9)	Approxim	ate coal	seam dep	oths: 22	0'		
10)	D) Does land contain coal seams tributary to active mine? Yes/ No_X/						
11)	Proposed	Well Wo		rill & stimulate ne	ew well		
12)			CASI	NG AND TUBI	NG PROGRAM		
TYPE		S			FOOTAGE IN	ITERVALS	CEMENT
		Size	Grade		For drilling		Fill-up (cu. ft.)
Cond	uctor	11 3/4	H-40	42#	150	150	
Fres	h Water					(121	. 38 SR1911.5
Coal			and the second s			(4)	38031811.2.2
<u>Inte</u>	rmediate	8 5/8	H-40	20/23	1450'	1450'	Surface
Prod	uction	4 1/2	J-55	10.5	5800'	5800'	450 sks
Tubi	ng	~					6 38CSR14-11.1
Line	rs			Service and the service and th			
PACK	Siz	d					
~	Dep	ths set					
4/2/	(4)	E	or Divis	on of Oil a	and Gas Use	Only	A

WW-2B

Page 1 of	RECEIVED	I) Date:		
Form WW2-A (10-91)	WV Division of Environmental Protection	2) Operator's well number Doak #1		
	MAY 1 2 93	3) API Well No: 47 - 017 - 4018		
	Permitting	State - County - Permit		
DTUTC:	Wrice of Oil & CSTATE C	OF WEST VIRGINIA		
DIAT2	ON OF ENVIRONMENTAL	PROTECTION, OFFICE OF OIL AND GAS		
	NOTICE AND APPLICA	TION FOR A WELL WORK PERMIT		
4) Surface (Owner(s) to be serve	d: 5) (a) Coal Operator:		
(a) Name	James & Wilma Hill	Name		
	Route 2, Box 195	Address		
(b) Name	West Union, WV 26456	(b) Coal Owner(s) with Declaration		
Address		Name Consolidation Coal Co., %Neil Jenking		
		Address P.O. Box 1314		
(c) Name		Morgantown, WV 26507-1314		
Address		Name		
		Address		
6) Inspector	Mike Underwood	(c) Coal Lessee with Declaration		
	Route 2, Box 135			
	Salem, WV 26426	Address		
Telephone	e (304) - 782-1043			
	TO THE PERSON(S) NA	AMED ABOVE TAKE NOTICE THAT:		
Included	is the lease or lead	ses or other continuing contract or		
contracts by v	which I hold the right	ht to extract oil and gas OR		
XX Included is the information required by Chapter 22B. Article 1.				
Section 8(d)	of the Code of West $^{ au}$	Virginia (see page 2)		
I certify	that as required up	nder Chapter 22B of the West Virginia Code		
accompanying d	documents pages 1 thi	ce and application, a location plat, and rough on the above named parties, by:		
Pers	sonal Service (Affida	avit attached)		
Cert	littled Mail (Postmar)	ked postal receipt attached) Publication attached)		
F UD		Publication attached)		
I have re	ead and understand Change of any	hapter 22B and 38 CSR 11-18, and I agree y permit issued under this application.		
I certify	under penalty of la	aw that I have personally examined and am		
familiar with	the information subr	mitted on this application form and all		
attachments, a	and that based on my	inquiry of those individuals immediately		
responsible to	or obtaining the info cate, and complete.	ormation, I believe that the information		
		gnificant penalties for submitting false		
information, i	ncluding the possib	ility of fine and imprisonment.		
	SEAL Well Open	rator Petroleum Development Corporation		
7.0	PUBLIC BY:	(P Mouro		
	BERNARD Its: Ge	P.O. Box 26		
My Coninposion Cap	₩V 26330 >> -	Bridgeport, WV 26330		
	Telephone	e (304) 842-6256		
Subscribed and sworn before me this 5th day of May , 19 93				
My commission	expires January 10	2000 Raisof Ruarl Notary Public		