

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

Well Operator's Report of Well Work

Farm name: DUNCAN, ANGELINA B. Operator Well No.: DUNCAN #1
LOCATION: Elevation: 1111.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 1925 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 11180 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP | Casing | Used in | Left |Cement | P. O. BOX 99 |Fill Up| ALMA, WV 26320-0099 & Tubing | Drilling | in Well|Cu. Ft. Agent: KENNETH R. MASON Size Inspector: MIKE UNDERWOOD 85/8 1518 15/8 07/27/89 surface Permit Issued: Well work Commenced: July 29,1989
Well work Completed: August 10,1989 4/2 5249 1555KS Verbal Plugging Permission granted on:_ Rotary Cable
Total Depth (feet)
Fresh water depths (ft) Salt water depths (ft) NONE Is coal being mined in area (Y/N)? DIVISION OF OIL & GAS Coal Depths (ft): ---- DEPARTMENT OF ENERGY-SEP 1 5 1989 OPEN FLOW DATA

Producing formation Renson Sandstone Pay zone depth (ft) 5/44-50

Gas: Initial open flow Show MCF/d Oil: Initial open flow Show Bbl/d Final open flow 4/2 MCF/d Final open flow O Bbl/d Time of open flow between initial and final tests 30 Hours

Static rock Pressure /450 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 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.

By: Kenneth R. Flanon SEP 15 1989
Date: 9/5/29

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GEOLOGICAL WELL RECORD DATA

PERMIT NUMBER: 47-017-3737

	TOP	BOTTOM	
SOIL BROKEN SAND SANDS AND SHALES DUNKARD SAND 1ST SALT SAND 2ND SALT SAND 3RD SALT SAND MAXON BIG LIME KEENER SAND BIG INJUN SAND WEIR BEREA CAP GANTZ SAND GORDON SAND WARREN RILEY BENSON TOTAL DEPTH	0 25 198 1095 1212 1395 1492 1675 2060 2140 2285 2402 2577 2603 2814 3473 4670 5132 5318	2496 2621 2850 SHOW 3522 4707 SHOW	SEP 12 1989 DIVISION OF OIL E GAS DEPARTMENT. OF ENERGY GAS and OIL GAS GAS GAS

WELL TREATMENT SCHEDULE

Benson Sand

5144 - 5150 Perforated with 15 holes

Formation Break Down

3130 PSI

Hydraulic frac with Nitrogen assist Average Treating Rate 20 barrels per min 500 barrels of gel treated water 300 sacks of 20/40 sand 50 sacks of 80/100 sand

Average Treating Pressure

2400 PSI

SEP 1 5 1989

FORM WW-2B

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

							(3) 610
1)	Well Ope	erator: D	rilling App	palachian Co	rporation	14425	(3)
2).							levation: 1111:
4)	Well typ	oe: (a) (oil <u>/</u> /	or Gas	5 <u>X</u> /		
		(b)	If Gas:		n_X/ Underg	round Stora Shall	
5)	Proposed	l Target I	Formation	ı(s):	Benson		
6)	Proposed Total Depth: 5400° feet						
7)	Approxim	mate fresl	n water s	trata dept	hs: <u>135'</u>		
8)	Approxim	mate salt	water de	pths: 13	1694 JG94	4	
9)	Approxim	mate coal	seam dep	oths:	NA Possible	le Blossom P	1179'
10)	Does lar	nd contain	n coal se	ams tribut	ary to act	ive mine?	Yes/ No <u>X</u> /
11)	Proposed	i Well Wor	rk: Dr	ill & Stimul	ate New Well		
12)			CASIN	IG AND TUBI	NG PROGRAM		
TYPE		SI	PECIFICAT		FOOTAGE I		CEMENT
		Size	Grade	Weight	For drilling	Left in well	Fill-up
Condi	ıctor	11 3/4"	ERW	42#	150'	150'(75.	38 CSR 18-11.3
Fresh	n Water_						38C5R18-11.22
Coal						alc	
Inter	mediate	8 5/8"	ERW	23#	1400'	1400'	38 CSR 18-11.3
	ction_	4 ½"	ERW	10.5#	5400 '	5400'	38 CSR 18-11.1
Tubir	ıg						
Liner	s						
PACKE	E <u>RS</u> : Kir	nd					
259		ths set					
		F	or Diviso	n of Oil a	ind Gas Use	Only	\sim
Fee(s) paid: Well Work Permit Reclamation Fund WPCP							
A	Plat	WW-9 (WW-	2B ()	sond Stank	Type)	Agent
UP.						· - 1 E - 1	

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1) 2)

3)

Date: <u>June 23, 1989</u>

Operator's well number

Duncan #1

API Well No: 47 - 017 -State - County - Permit

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

		NOTICE AND APPLICATION F	OR A WELL WORK PERMIT
4)		owner(s) to be served:	5) (a) Coal Operator:
	(a) Name	Angelina B. Duncan 9749 Cunningham Road	Name
	11441650 _	Jacksonville, Florida 32216	Address
	(b) Name		(b) Coal Owner(s) with Declaration
	Address _		Name
			Address
	(C) Name		
	Address _		Name
	**************************************		Address
6)	Inspector		(c) Coal Lessee with Declaration
	Address _		Name
			Address
	Telephone	(304)	
		TO THE PERSON(S) NAMED AB	ONE MAKE NOMICE MILEM.
		TO THE PERSON(B) NAMED AD	OVE TAKE NOTICE THAT:
	Included	is the lease or leases or	other continuing contract or
cont	racts by $``$	which I hold the right to ϵ	extract oil and gas OR
	Included	is the information require	ed by Chapter 22B. Article 1.
Sect	ion $8(d)$ o	f the Code of West Virgin	ia (see page 2)
	I certify	' that as required under C	hapter 22B of the West Virginia Code
I ha	ve served	copies of this notice and	application, a location plat, and
acco:	mpanying d	ocuments pages 1 through	on the above named parties.by:
	Pers	onal Service (Affidavit a	ttached)
	Cert	ified Mail (Postmarked postication (Notice of Publication)	stal receipt attached)
		reaction (Mocice of Publica	attached)
	I have re	ad and understand Chapter	22B and 38 CSR 11-18, and I agree
to the	he terms a	nd conditions of any perm	it issued under this application.
	1 certify	under penalty of law that	t I have personally examined and am
fami	liar with	the information submitted	on this application form and all
atta	chments, a	nd that based on my inquip	ry of those individuals immediately
resp	onsible to	r obtaining the information	on, I believe that the information
is t	rue, accur	ate, and complete.	
. 5	I am awar	e that there are signification	ant penalties for submitting false
inte	tmatten,t	nameding, the possibility (of fine and imprisonment.
WEST	OFFICE	Y PUBLIC Well Operator	Drilling Appalachian Corporation
	~ W	D.	month L. Mason
都是	151	TEVENS ID } Its:	President
	Department of 1	Energy, Oil & Gas $\}$ Address $ extbf{P.O. Box}$	x 99, Alma, Wva. 26320
1100		Charleston, WV 25304 \$ pires Aug. 31, 1998 \$	
Sinher	~~~~~~~~~~	Telephone 304	-758-4638
המחפו	-rined and	sworn before me this 27th	h. day of July , 1989
		Amas Stevens	A Motory Dublic
Mv co	ommission	eynires	Notary Public