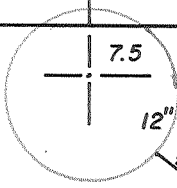


Janie 3/28/90

10,625'

LATITUDE 39° 22' 30"



GRESSMAN

0.10 S
2.00 W

12" PINE STUMP FOUND

DOAK

N13°E, 264'
S70°48'E, 945.51'

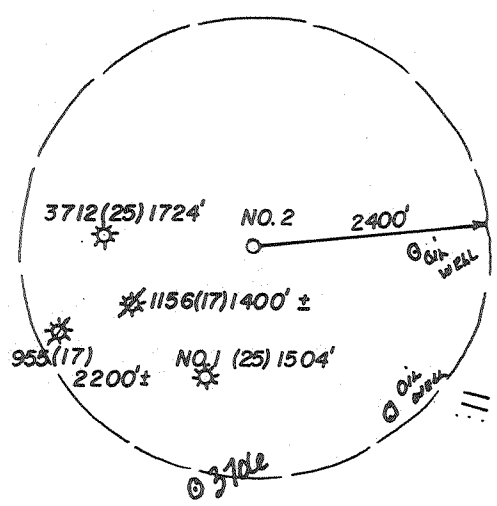
S52°E, 330'

NO. 2

N3°E, 2 465.65'

S25°25'W, 2381.65'

WOLFE



(6.25 AC.)

KIMBALL

N1°30'E, 1006.50'

ANGELINA DUNCAN 100. AC

THOMPSON

46" CHESTNUT OAK (FOUND)

WELL REFERENCES:

N23°W, 165' TO 6" SOURWOOD
N68°E, 242' TO 8" RED MAPLE

N58°W, 1006.50'

KAYE

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

WYRICK

SMITH

15' loc
298 S
4.23 W

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION TOP OF KNOB 2525'S.
OF LOC. AT ELEV. 1284'

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) *[Signature]*

R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE DEC. 6, 19 89
OPERATOR'S WELL NO. DUNCAN 2
API WELL NO. _____

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

LOCATION: ELEVATION 1107' WATER SHED LITTLE FLINT RUN
DISTRICT GRANT 3 COUNTY DODDRIDGE

QUADRANGLE SMITHBURG 7.5 Centerpoint Wc
SURFACE OWNER ANGELINA DUNCAN ACREAGE 100.
OIL & GAS ROYALTY OWNER ANGELINA DUNCAN LEASE ACREAGE 100.

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5700'

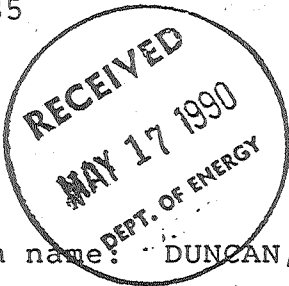
WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE SHELL
ADDRESS P.O. DRAWER R 847 ADDRESS P.O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

Swiger (Flint Run) (097)

LONGITUDE 80° 42' 30"

COUNTY NAME

PERMIT



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 #2-436-S

LOCATION: Elevation: 1107.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 515 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10625 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: STONEWALL GAS COMPANY
909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 04/09/90
Well work Commenced: 04-19-90
Well work Completed: 04-24-90
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 5320
Fresh water depths (ft) 165
Salt water depths (ft) 426

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	129	129	75SKS
8 5/8	1309	1309	290 SKS
4 1/2	5252	5252	720 SKS

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

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5174
Gas: Initial open flow 47 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1592 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 HR Hours
Static rock Pressure 1425 psig (surface pressure) after 60 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.

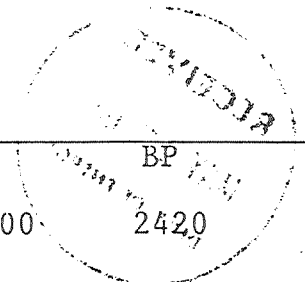
For: STONEWALL GAS COMPANY

By: [Signature] Petroleum Engineer
Date: MAY 14, 1990

MAY 22 1990

1 STAGE FRAC WATER DATE MAY 9, 1990

ZONES	PERFS	HOLES	BBL	SAND	BP	ISIP
BENSON	5174-5180	18	800	80,000	2420	1930



FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
FILL	BROWN	SOFT	0	3	GAS ODOR @ 2225
SANDY SHALE	GRAY	SOFT	3	20	
RED ROCK	RED	SOFT	20	30	GAS CK 2340 NO SHOW
RR & SHALE	BROWN	SOFT	30	120	
SAND	BROWN	SOFT	120	155	GAS CK 2836 NO SHOW
SAND & SHALE	TAN	SOFT	155	570	GAS CK 2895 14/10 2" W/W
COAL	BLACK	HARD	570	580	GAS CK 3180 8/10 2" W/W
SAND	TAN	HARD	580	620	
SANDY SHALE	TAN	HARD	620	635	GAS CK 3742 6/10 1" W/W
SAND	TAN	HARD	635	690	GAS CK 4456 6/10 1" W/W
SANDY SHALE	GRAY	SOFT	690	830	GAS CK 4674 6/10 1" W/W
SAND	GRAY	SOFT	830	850	GAS CK 4766 10/10 1" W/W
SANDY SHALE	GRAY	SOFT	850	1015	GAS CK 5165 10/10 1" W/W
SAND	TAN	SOFT	1015	1062	GAS CK 5226 20/10 1" W/W
RR & SHALE	GRAY	HARD	1062	1285	GAS CK TD 4/10 1" W/W
SAND	TAN	HARD	1285	1290	
RR & SHALE	GRAY	SOFT	1290	1970	
SAND & LIME	BROWN	SOFT	1970	2115	
SHALE & RR	BROWN	HARD	2115	2060	
LIME	BROWN	HARD	2060	2090	
LIME & SHALE	GRAY	HARD	2090	2095	
B. LIME	GRAY	HARD	2095	2190	
INJUN	GRAY	SOFT	2190	2319	
SAND & SHALE	GRAY	SOFT	2319	2743	
SHALE	GRAY	SOFT	2743	2860	
GORDON	BROWN	SOFT	2860	2855	
SAND & SHALE	BROWN	SOFT	2885	4425	
SAND	BROWN	SOFT	4425	4695	
RILEY	GRAY	SOFT	4695	4720	
SAND & SHALE	GRAY	SOFT	4720	5170	
1ST BENSON	GRAY	SOFT	5170	5180	
SAND & SHALE	GRAY	HARD	5180	5190	
2ND BENSON	GRAY	HARD	5190	5210	
SAND & SHALE	GRAY	HARD	5210	5320	
TD			5320		

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY Page of

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

Issued 4/9/90
Expires 4/9/92

- 1) Well Operator: 847 STONEWALL GAS COMPANY 47850 (3) 610
- 2) Operator's Well Number: DUNCAN #2 (436-S) 3) Elevation: 1107'
- 4) Well type: (a) Oil / or Gas X /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow X /
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5300 feet
- 7) Approximate fresh water strata depths: 20', 95', 628', 238'
- 8) Approximate salt water depths: 400'
- 9) Approximate coal seam depths: N/A 628-629'
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: DRILL & STIMULATE New Well
- 12)

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"		28#	130'	<u>ets</u> 130'	88CSR18-11.3
Fresh Water						<u>o.k. M/K's</u>
Coal						
Intermediate	8 5/8"		20#	1300'	<u>ets</u> 1300'	88CSR18-11.2.2
Production	4 1/2"		10.5#	5200'	5200'	88CSR18-11.1
Tubing						
Liners						

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only

6762
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 500 Agent
 (Type)

RECEIVED
MAR 21 1990

Page 1 of
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: MARCH 16, 1990
2) Operator's well number
DUNCAN #2 (436-S)
3) API Well No: 47 - 017 - 3804
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name ANGELINA B. DUNCAN
Address 9749 CUNNINGHAM RD
JACKSONVILLE, FL 32216
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 25271
Telephone (304)-782-1043

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name SAME AS SURFACE
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name N/A
Address _____

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22B 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 22B 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 STONEWALL GAS COMPANY
By: Benji J. Smith
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881

Subscribed and sworn before me this 16TH day of MARCH, 1990

Sorothy Queen Notary Public
My commission expires March 14, 2000