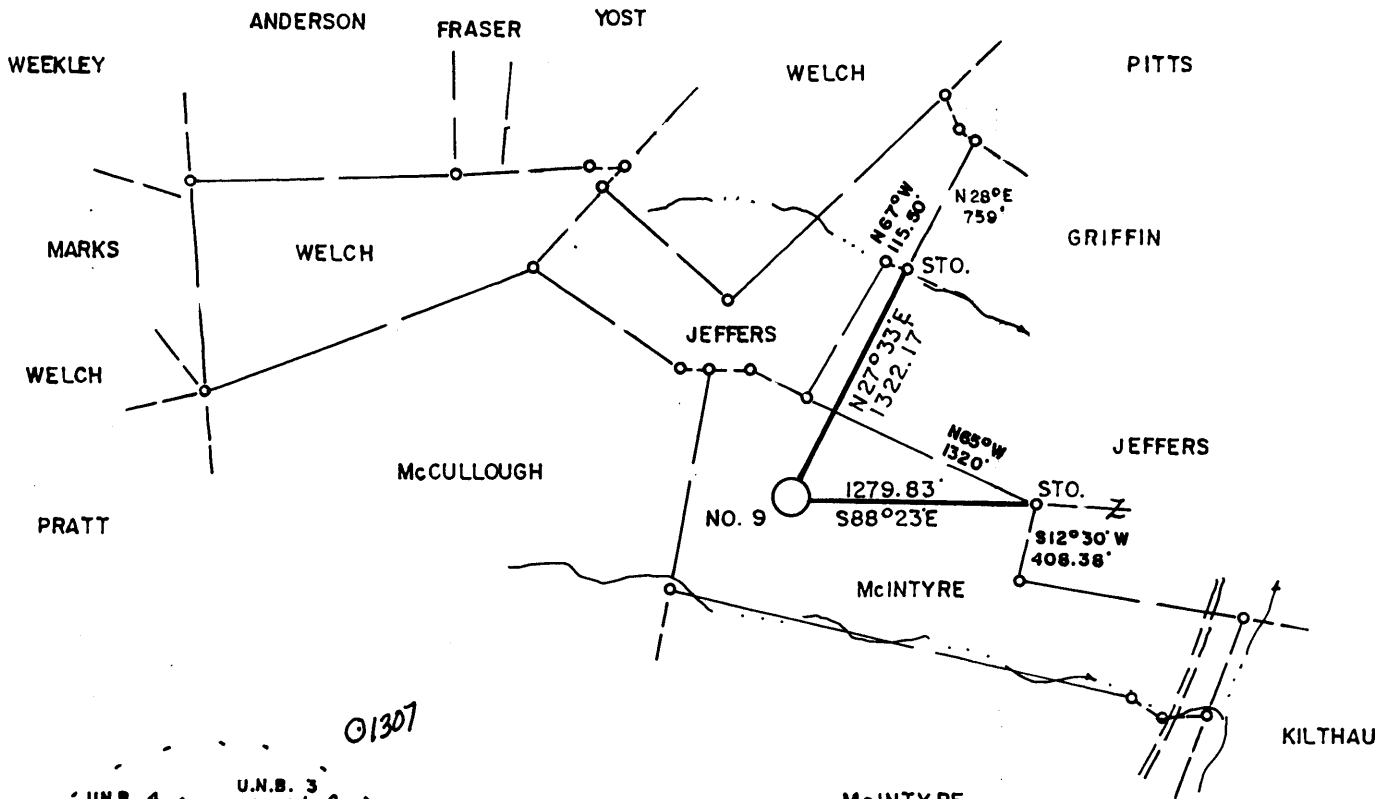


Jamie 8/8/90

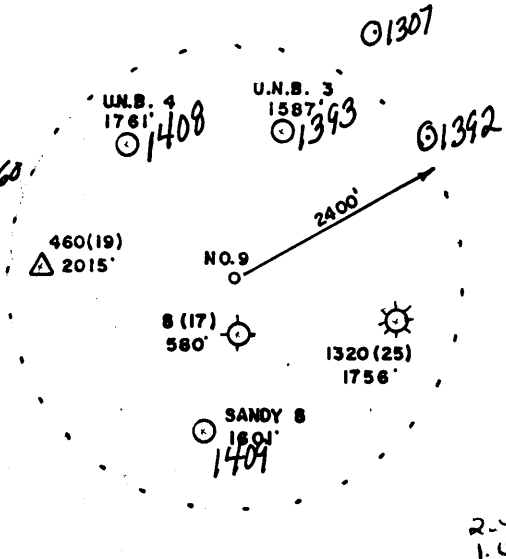
7540' LATITUDE 39° 25' 00"

WELL REFERENCES:
 N81°30'W, 129.50' TO 8" W.OAK
 N42°W, 122' TO 6" POPLAR

LONGITUDE 80° 45' 00" 12,730'



NORTH



NOTE: CALL BETWEEN STONES IS N28°55'W, 1380.69'

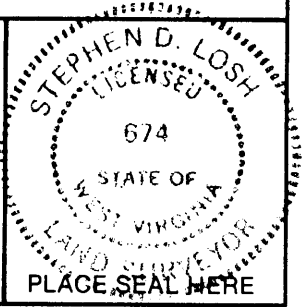
LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 2800' S.E. OF LOCATION ELEV. - 812'

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) _____
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MARCH 26, 19 90
 OPERATOR'S WELL NO. SANDY NO. 9
 API WELL NO.

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

LOCATION: ELEVATION 1018' WATERSHED SANDY RUN
 DISTRICT Mc ELROY 5 COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5 min. W. U.M. EC

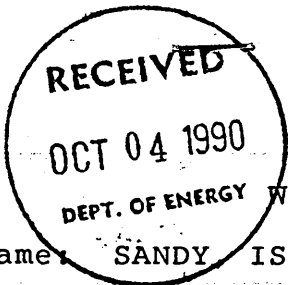
SURFACE OWNER DARRELL McINTYRE ACREAGE 50
 OIL & GAS ROYALTY OWNER WILLIAM SANDY LEASE ACREAGE 637
 LEASE NO. _____

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 BENSON ESTIMATED DEPTH 5350'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSIE SHELL
 ADDRESS P.O. DRAWER R 847 ADDRESS P.O. DRAWER R
 JANE LEW, WV 26378 JANE LEW, WV 26378

AUG 1 1990

COUNTY NAME
 PERMIT



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

Well Operator's Report of Well Work

Farm name: SANDY ISEAEL M. - HEIRS Operator Well No.: SANDY 9 439-S

LOCATION: Elevation: 1018.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
Latitude: 12730 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 7540 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: JESSE A. SHELL

Inspector: GLEN P. ROBINSON
Permit Issued: 08/13/90
Well work Commenced: 08-26-90
Well work Completed: 08-30-90
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5150
Fresh water depths (ft) _____
60
Salt water depths (ft) _____
900'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	100	100	61 SKS
8 5/8	1189	1189	265 SKS
4 1/2	5114	5114	710 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4980
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2613 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1625 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4540
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 2613 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1625 psig (surface pressure) after 168 Hours

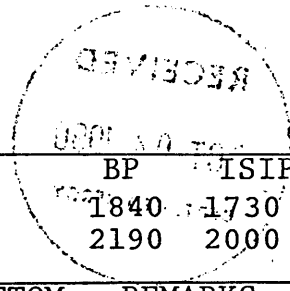
*Unable to determine due to large Open Flow from Injun

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

OCT 5 1990

By: Ray M. Frear, Jr. RAY M. FREAR, JR.
Date: _____ PETROLEUM ENGINEER



2 STAGE	Water FRAC	9/13/90	DATE		
ZONES	PERFS		HOLE	BBL	BP ISIP
BENSON	4980-4980		18	800	1840-1730
RILEY	4540-4548		18	700	2190 2000

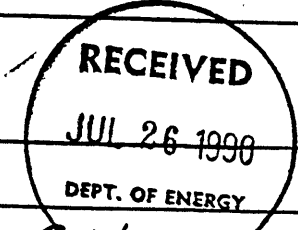
FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
RED ROCK	RED	HARD	0	15	1/2" H ₂ O @ 60'
SHALE	GRAY	HARD	15	30	
SAND	BROWN	SOFT	30	75	GAS CK @ 1994 NO SHOW
RR & SHALE	GRAY	MED	75	130	
SAND & SHALE	GRAY	MED	130	220	GAS CK @ 2028 NO SHOW
COAL	BLACK	SOFT	220	223	GAS CK @ 2056 16/10 2" W/M
SAND	BROWN	SOFT	223	235	GAS CK @ 2088 20/10 2" W/M
RR & SHALE	BROWN	MED	235	325	GAS CK @ 2523 20/10 2" W/M
SAND & SHALE	BROWN	HARD	325	430	GAS CK @ 2927 10/10 2" W/M
RR & SHALE	GRAY	HARD	430	730	
COAL	BLACK	SOFT	730	733	GAS CK @ 4169 10/10 2" W/M
SAND & SHALE	GRAY	MED	733	925	GAS CK @ 4726 8/10 2" W/M
COAL	BLACK	SOFT	925	928	
SAND & SHALE	GRAY	HARD	928	1460=	GAS CK @ TD 6/10 2" W/M
SAND	BROWN	HARD	1460	1490	
SAND & SHALE	BROWN	HARD	1490	1757	
SAND	BROWN	SOFT	1757	1806	
SAND & SHALE	GRAY	SOFT	1806	1853	
LITTLE LIME	BROWN	SOFT	1853	1866	
SHALE	GRAY	HARD	1866	1888	
BIG LIME	BROWN	MED	1888	1993	
BIG INJUN	GRAY	MED	1993	2101	
SAND & SHALE	GRAY	SOFT	2101	2675	
GORDON	BROWN	MED	2675	2685	
SAND & SHALE	BROWN	HARD	2685	4536	
RILEY	BROWN	HARD	4535	4555	
SAND & SHALE	GRAY	HARD	4555	4981	
BENSON	BROWN	SOFT	4981	4989	
SAND & SHALE	GRAY	SOFT	4989	5150	
TD			5150		

11007

095-1422 Issued 8/13/90
Expires 8/13/92

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

- 1) Well Operator: STONEWALL GAS COMPANY 47850 (5) 606
- 2) Operator's Well Number: SANDY #9 3) Elevation: 1018'
- 4) Well type: (a) Oil or Gas /
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 5150 feet
- 7) Approximate fresh water strata depths: 40'
- 8) Approximate salt water depths: 260' & 380'
- 9) Approximate coal seam depths: 215' OK 596'-601' 270'-272'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: DRILL & STIMULATE New Well
- 12)



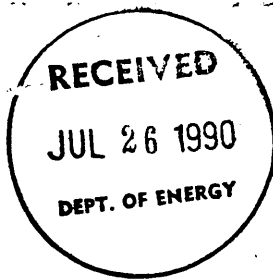
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
<u>GR 4/19/90</u> Conductor	11 3/4"		28#	100'	100 CTS	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1200'	1200 CTS	38 CSR 18-11.2 <u>2</u>
Production	4 1/2"		10.5#	5100'	5100'	38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: 1 Well Work Permit 1 Reclamation Fund 1 WPCP
 Plat 1 WW-9 1 WW-2B 1 Bond 1 Agent



- 1) Date: JULY 25, 1990
- 2) Operator's well number
SANDY #9 439-S
- 3) API Well No: 47 - 095 - 1422
State - County - Permit

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

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:
 (a) Name <u>ISRAEL M. SANDY HEIRS</u>
 Address <u>C/O THOMAS ALLEN</u>
 <u>RT 2, BOX 406 A WASHINGTON, WV</u>
 (b) Name <u>26181</u>
 Address _____

 (c) Name _____
 Address _____
 _____</p> | <p>5) (a) Coal Operator:
 Name <u>N/A</u>
 Address _____

 (b) Coal Owner(s) with Declaration
 Name <u>ISRAEL SANDY HEIRS</u>
 Address <u>SAME AS ABOVE</u>
 <u>J.L. SANDY HEIRS C/O DONALD L.</u>
 Name <u>HENDERSON 12450 PINEROCK</u>
 Address <u>HOUSTON, TX 77024</u>

 (c) Coal Lessee with Declaration
 Name <u>N/A</u>
 Address _____
 _____</p> |
| <p>6) Inspector <u>GLEN P. ROBINSON</u>
 Address <u>RT 1 #6 MT PLEASANT EST.</u>
 <u>MINERAL WELLS, WV 26150</u>
 Telephone (304)- <u>489-2736</u></p> | |

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: *Bevin A. Harshbarger*
 Its: PRESIDENT
 Address PO DRAWER R
JANE LEW, WV 26378
 Telephone 304-884-7881

Subscribed and sworn before me this 25TH day of JULY, 1990

Sorothy Queen Notary Public
 My commission expires MARCH 14, 2000