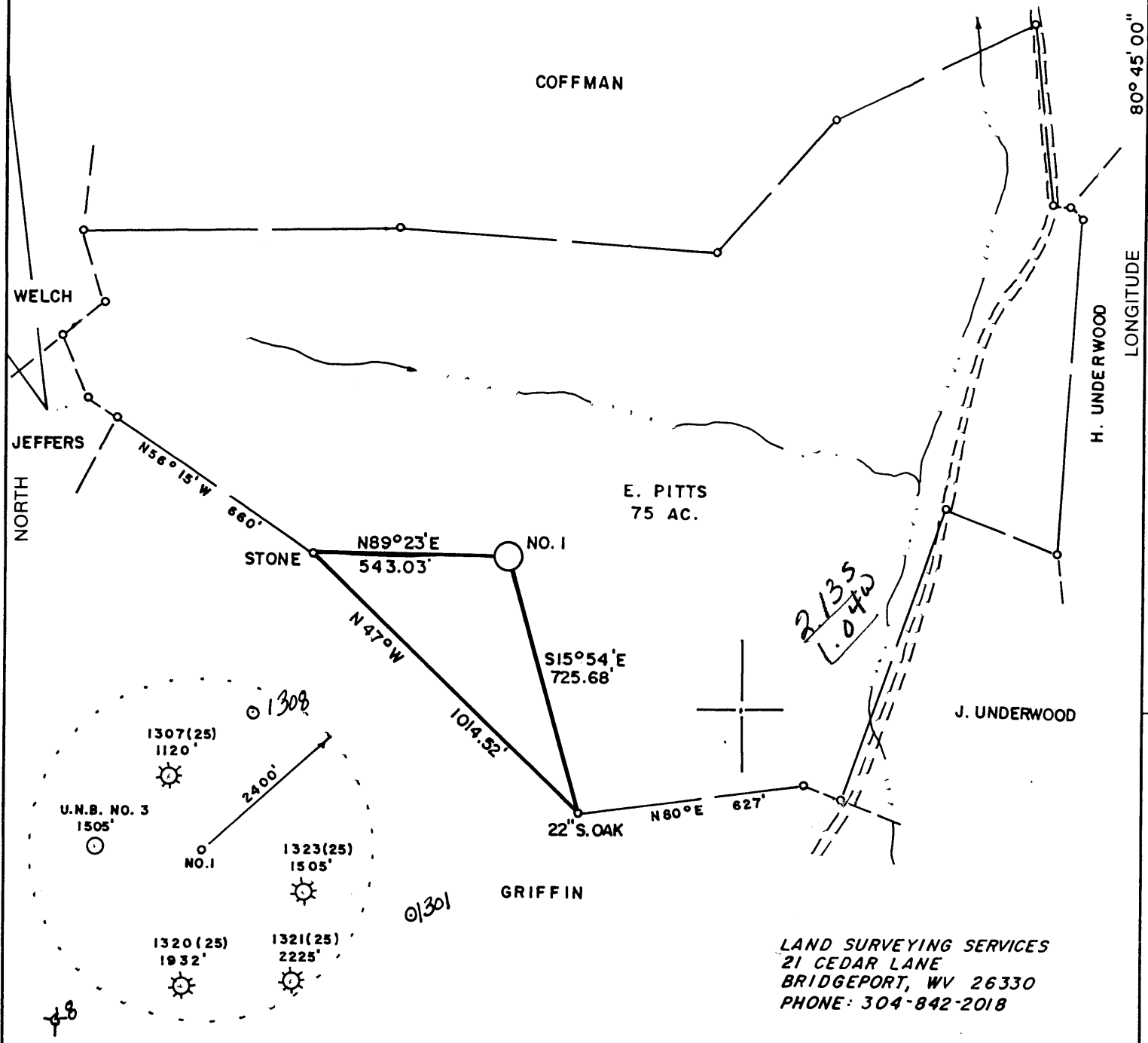


WELL REFERENCES:
 N47°W, 192.50' TO 12" R. OAK
 N72°45' W, 168' TO 6" R. MAPLE

Janie 5/30/90

5580'
 LATITUDE 39° 25' 00"

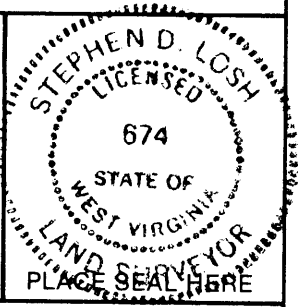


LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 3700' S.
 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 MAY 07, 1990
 OPERATOR'S WELL NO. ERMA PITTS NO. 1
 API WELL NO. _____

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

LOCATION: ELEVATION 1019' WATER SHED SANDY RUN
 DISTRICT Mc ELROY 5 COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5 min. West Union 15' EC

SURFACE OWNER ERMA M. PITTS ACREAGE 74
 OIL & GAS ROYALTY OWNER ERMA M. PITTS LEASE ACREAGE 75
 LEASE NO. _____

PROPOSED WORK: DRILL X 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 5400'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSIE SHELL
 ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R
JANE LEW, WV 26378 JANE LEW, WV 26378

JUN 11 1990

FORM WW-6 HALLS INC. 068065

COUNTY NAME PERMIT

6-6 Wilbur (092)

REC'D
 Division
AUG 06 90
 Permitting
 Oil and Gas Section

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

Well Operator's Report of Well Work

Farm name: PITTS, ERMA MABEL Operator Well No.: 1 449-S

LOCATION: Elevation: 1019.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
 Latitude: 11280 Feet South of 39 Deg. 25Min. 0 Sec.
 Longitude 5580 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: 06/06/90
 Well work Commenced: 06-22-90
 Well work Completed: 06-27-90
 Verbal Plugging _____
 Permission granted on: _____
 Rotary X Cable _____ Rig
 Total Depth (feet) 5150
 Fresh water depths (ft) _____
 50'
 Salt water depths (ft) _____
 690, 1625
 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	122	122	60 SK
8 5/8	1252	1252	290 SK
4 1/2	5103	5103	710 SK

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5016
 Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1476 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 HR Hours
 Static rock Pressure 1600 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4573
 Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1476 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 HR Hours
 Static rock Pressure 1600 psig (surface pressure) after 168 Hours

* UNABLE TO DETERMINE DUE TO LARGE NATURAL 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

By: [Signature] PETROLEUM ENGINEER
 Date: 7/27/90

AUG 10 1990

STAGES	2	FRAC	WATER	DATE	07-12-90		
ZONES		PERFS		HOLES	BBL	BP	ISIP
BENSON		5016-1021		20	700	1870	1640
RILEY		4573-4596		22	700	1910	1800

FORMATION	COLOR		HARD/SOFT	TOP	BOTTOM	REMARKS
FILL	BROWN	SOFT	0	3		
SAND & SHALE	GRAY	SOFT	3	8	1/4" STREAM @ 50'	
RR & SHALE	GRAY	HARD	8	15		
SAND & SHALE	GRAY	HARD	15	20	1/4 " STREAM @ 690'	
SHALE & RR	GRAY	HARD	20	45		
SAND	BROWN	SOFT	45	75	HOLE DAMP @ 1625	
SAND & SHALE	BROWN	SOFT	75	120	GAS CK 1904 NO SHOW	
SHALE & RR	BROWN	SOFT	120	320		
SAND & SHALE	BROWN	HARD	320	400	GAS CK 1998 NO SHOW	
SAND	TAN	SOFT	400	460		
SAND & SHALE	BROWN	HARD	460	525	GAS CK 2092 4/10 7" H ₂ O	
SAND	GRAY	HARD	525	530		
SAND & SHALE	GRAY	HARD	530	590	GAS CK 2123 40/10 2" W/M	
SAND	GRAY	HARD	590	695		
SAND & SHALE	GRAY	HARD	695	865	GAS CK 2311 42/10 2" W/M	
SHALE & RR	BROWN	HARD	865	980		
SAND & SHALE	BROWN	SOFT	980	1035	GAS CK 3150 30/10 2" W/M	
SHALE & RR	BROWN	SOFT	1035	1220		
SAND & SHALE	GRAY	SOFT	1220	1290	GAS CK 4822 30/10 2" W/M	
SHALE & RR	GRAY	SOFT	1290	1770		
SAND	GRAY	HARD	1770	1904	GAS CK 5150 30/10 2" W/M	
L-LIME	BROWN	HARD	1904	1920		
SAND & SHALE	BROWN	HARD	1920	1925		
B LIME	GRAY	SOFT	1925	2055'		
BIG INJUN	GRAY	SOFT	2055	2150		
SAND & SHALE	GRAY	HARD	2150	2695		
GORDON	GRAY	HARD	2695	2610		
SAND & SHALE	GRAY	SOFT	2610	4552		
RILEY	GRAY	SOFT	4552	4570		
SAND & SHALE	GRAY	SOFT	4570	5035		
BENSON	GRAY	HARD	5035	5045		
SAND & SHALE	GRAY	HARD	5045	5150		
TD			5150			

10488

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: ERMA PITTS #1 (449-S) 3) Elevation: 1019'
- 4) Well type: (a) Oil or Gas X /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow X /
- 5) Proposed Target Formation(s): BENSON 425
- 6) Proposed Total Depth: 5150' feet
- 7) Approximate fresh water strata depths: 40', 270' 380' 280'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 160' *Possible coal seam coal 60'*
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: DRILL & STIMULATE

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"		27#	100'	100' CTS	88CSR18-11.3
Fresh Water						
Coal						3
Intermediate	8 5/8"		20#	1200'	1200' CTS	88CSR18-11.2.2
Production	4 1/2"		10.5#	5100'	5100'	88CSR18-11.1
Tubing						
Liners						

PACKERS : Kind
 Sizes
 Depths set

RECEIVED
 Division of Energy
 MAY 21 1990

For Division of Oil and Gas Use Only

6831
 13
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent

1) Date: MAY 21, 1990
2) Operator's well number
ERMA PITTS #1 (449-S)
3) API Well No: 47 - 095 - 1392
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

DECL
Division of
MAY 21, 90
Permitting
and Gas Section

4) Surface Owner(s) to be served:
(a) Name ERMA MABEL PITTS
Address C/O STEPHEN PITTS
C.P. STAR RT BOX 171
(b) Name WEST UNION, WV 26456
Address _____
(c) Name _____
Address _____

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

6) Inspector GLEN ROBINSON
Address RT 1, #6 MT PLEASANT EST
MINERAL WELLS, WV 26150
Telephone (304)- 489-2736

(c) Coal Lessee with Declaration
Name N/A
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

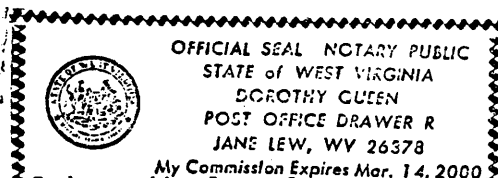
_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

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: [Signature]
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881



Subscribed and sworn to before me this 21 day of MAY, 19 90

[Signature] Notary Public
My commission expires MAR 14, 2000