

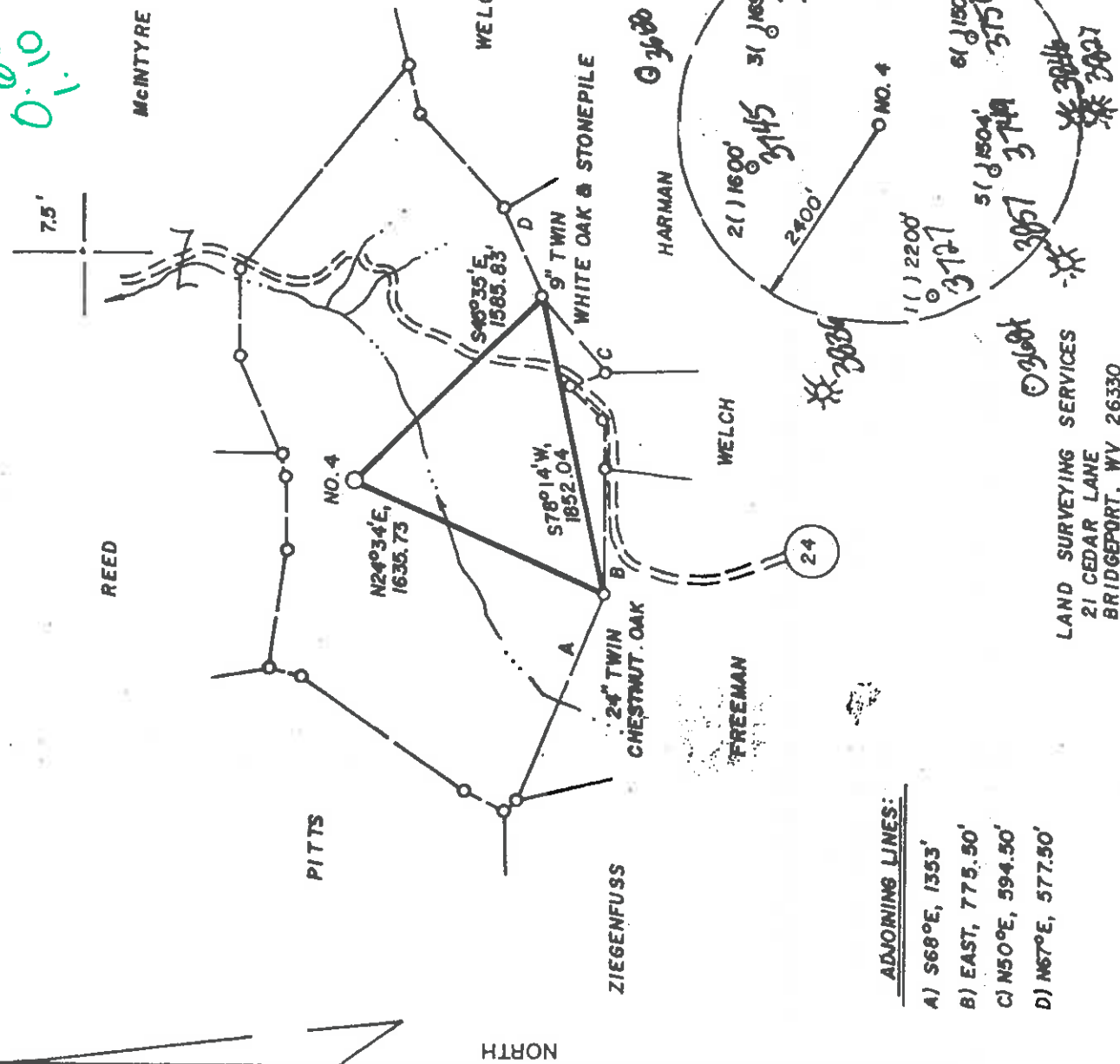
Jane 5/29/90 & 5/27/92 - 11/16/95

WELL REFERENCES:
 N3°W, 99' TO 7' RED MAPLE
 N42°E, 134' TO 14' WHITE OAK

5900'
 LATITUDE 39° 22' 30"

LONGITUDE 80° 45' 00"

*0.63
 0.10*



ADJOINING LINES:

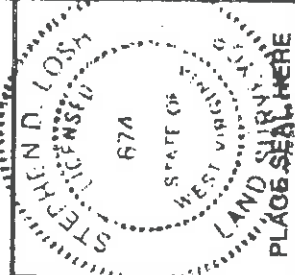
- A) S68°E, 1353'
- B) EAST, 775.50'
- C) N50°E, 594.50'
- D) N67°E, 577.50'

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" = 1,000'
 MINIMUM DEGREE OF _____
 ACCURACY 1 IN 200
 PROVEN SOURCE OF _____
 ELEVATION TOP OF KNOB 1170' NW.
OF LOC. AT ELEV. 1307

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. _____ NO. 674
 STEPHEN R. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE AUGUST 14, 19 89
 OPERATOR'S WELL NO. SANDY 4
 API WELL NO. 47-017 STATE OKLAHOMA COUNTY DEKADRE PERMIT 3825-W

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1102 WATERSHED SANDY RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5
 SURFACE OWNER BILLY ELMORE ACREAGE 126
 OIL & GAS ROYALTY OWNER WM. SANDY LEASE ACREAGE 637

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 5450'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT John Haspinis
 ADDRESS P.O. DRAWER R, Dominica, West Virginia ADDRESS P.O. DRAWER R
JANE LEW, WV 26378-0080 App. Devel. Inc. JANE LEW, WV 26378-0080

D000 COUNTY NAME

3825-W PERMIT

MAY 14 1989

Janie 5/27/90 & 5/27/92 - 11/16/95

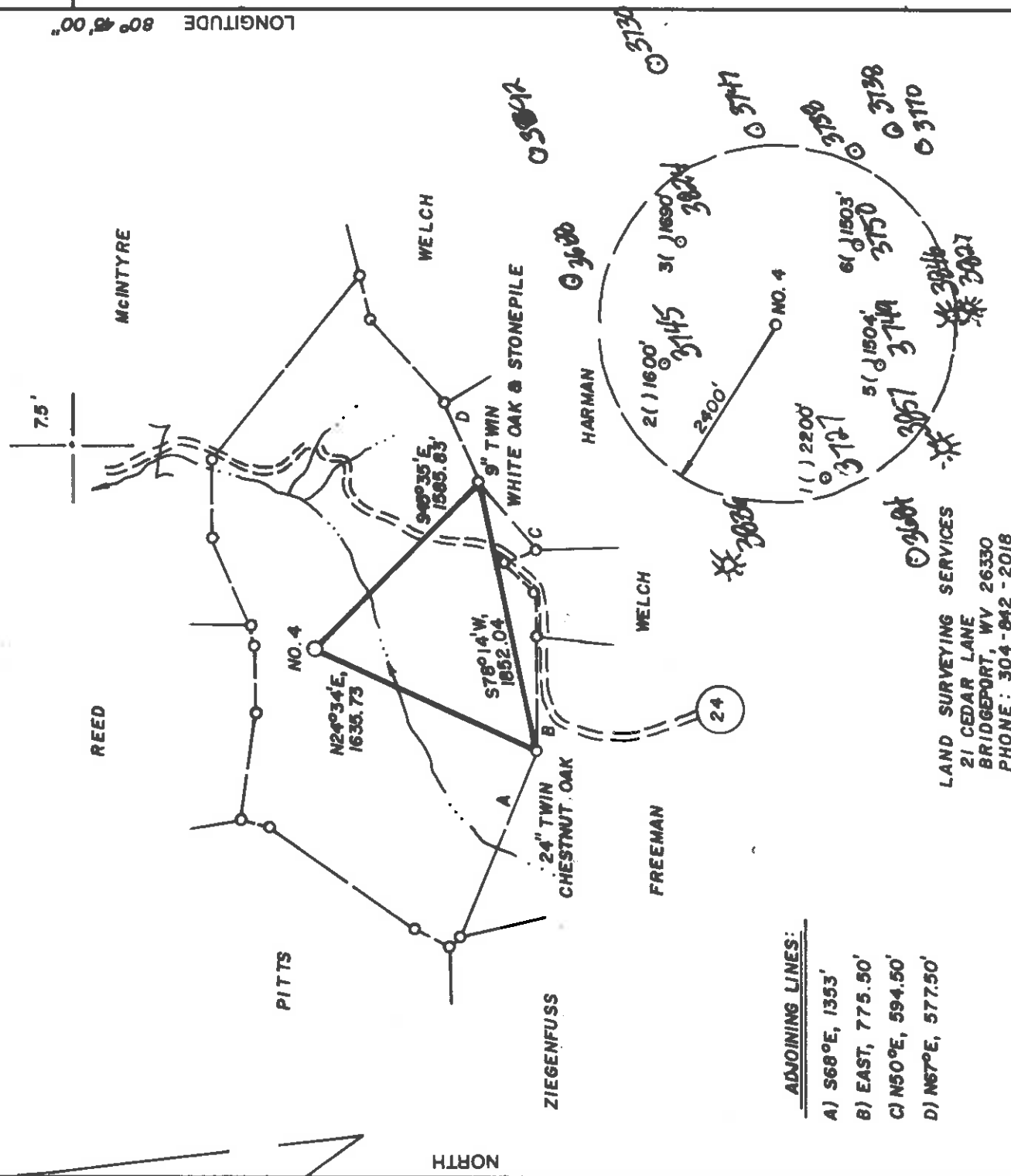
WELL REFERENCES:

- N31°W, 99' TO 7" RED MAPLE
- N42°E, 134' TO 14" WHITE OAK

5900'

LATITUDE 39° 22' 30"

LONGITUDE 80° 48' 00"



ADJOINING LINES:

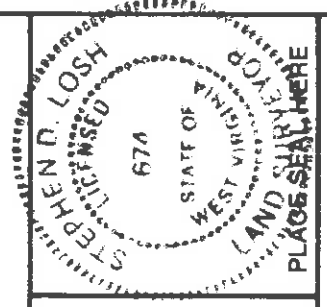
- A) S68°E, 1353'
- B) EAST, 775.50'
- C) N50°E, 594.50'
- D) N67°E, 577.50'

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-642-2018

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1170' NW. OF LOC. AT ELEV. 1307'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE AUGUST 14, 19 89
 OPERATOR'S WELL NO. SANDY 4
 API WELL NO. _____

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF "GAS,") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1102 WATER SHED SANDY RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER BILLY ELMORE ACREAGE 126.
 OIL & GAS ROYALTY OWNER WM. SANDY LEASE ACREAGE 637.

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 LEASE NO. _____
 FEB 21 1990

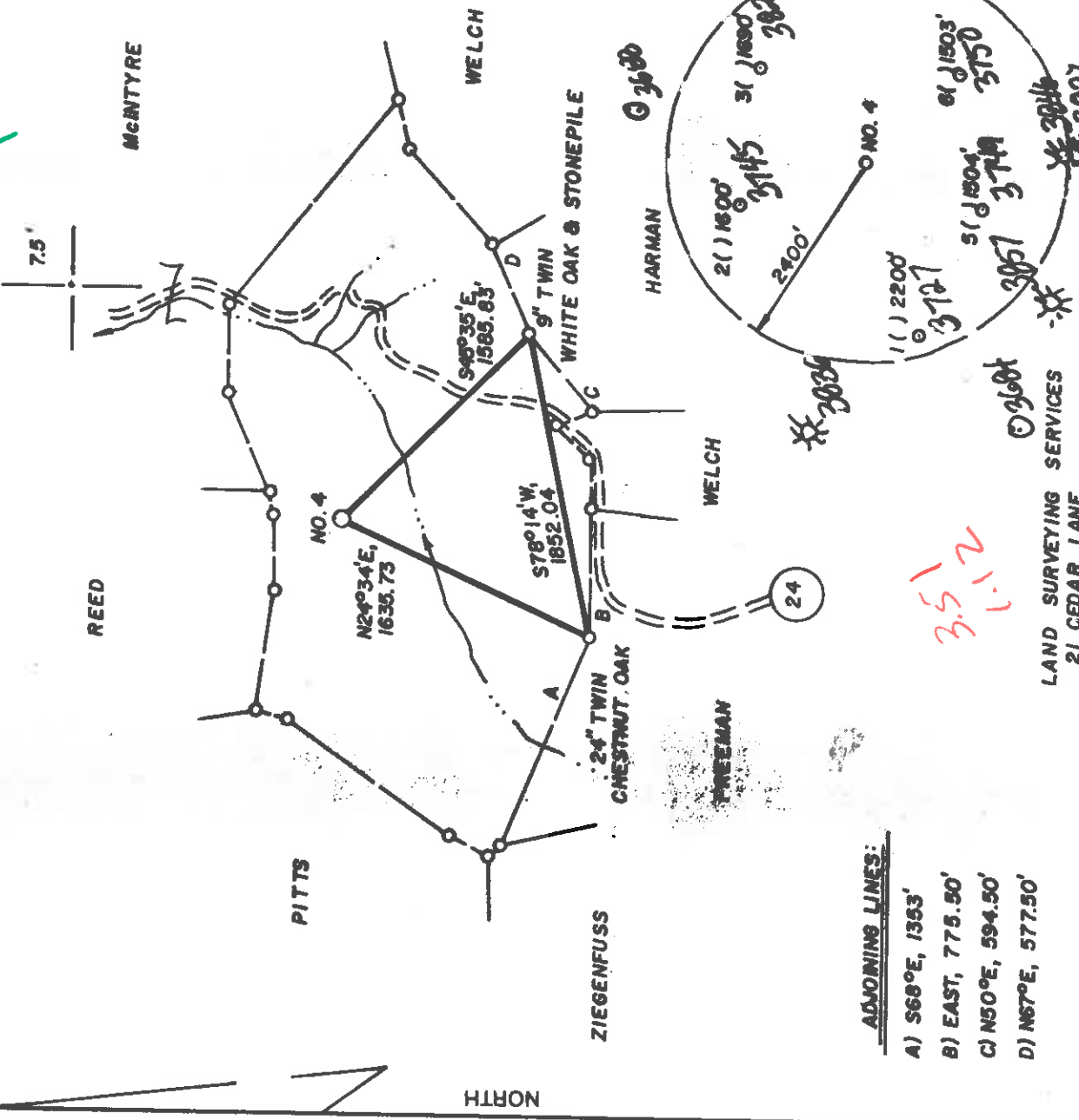
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION BENSON ESTIMATED DEPTH 5450'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT
 ADDRESS P. O. DRAWER R ADDRESS
 JANE LEW, WV 26378-0080
 JANE LEW, WV 26378-0080

Janie 5/29/90 & 5/27/92 - 11/16/95

WELL REFERENCES:
 N3°W, 99' TO 7' RED MAPLE
 N42°E, 134' TO 14' WHITE OAK

5900' LATITUDE 39° 22' 30"
 80° 43' 00" LONGITUDE

Q.1000



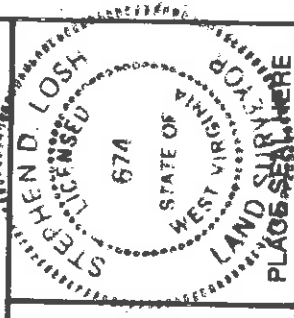
ADJOINING LINES:
 A) S68°E, 1353'
 B) EAST, 775.50'
 C) N50°E, 594.50'
 D) N67°E, 577.50'

LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-642-2018

(+) 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 TOP OF KNOB 1170' NW.
OF LOC. AT ELEV. 1307

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 B. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE AUGUST 14, 19 89
 OPERATOR'S WELL NO. SANDY 4
 API WELL NO. _____

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

LOCATION: ELEVATION 1102' WATER SHED SANDY RUN
 DISTRICT GRANT COUNTY WOODRIDGE
 QUADRANGLE WEST UNION 7.5' x 15' 16

SURFACE OWNER BILLY ELMORE ACREAGE 126.
 OIL & GAS ROYALTY OWNER WM. SANDY LEASE ACREAGE 637.

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 5450'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT John Hopkins
 ADDRESS P.O. DRAWER R ADDRESS _____

0000 COUNTY NAME

3825 W PERMIT

47-017-3825-W PERMIT

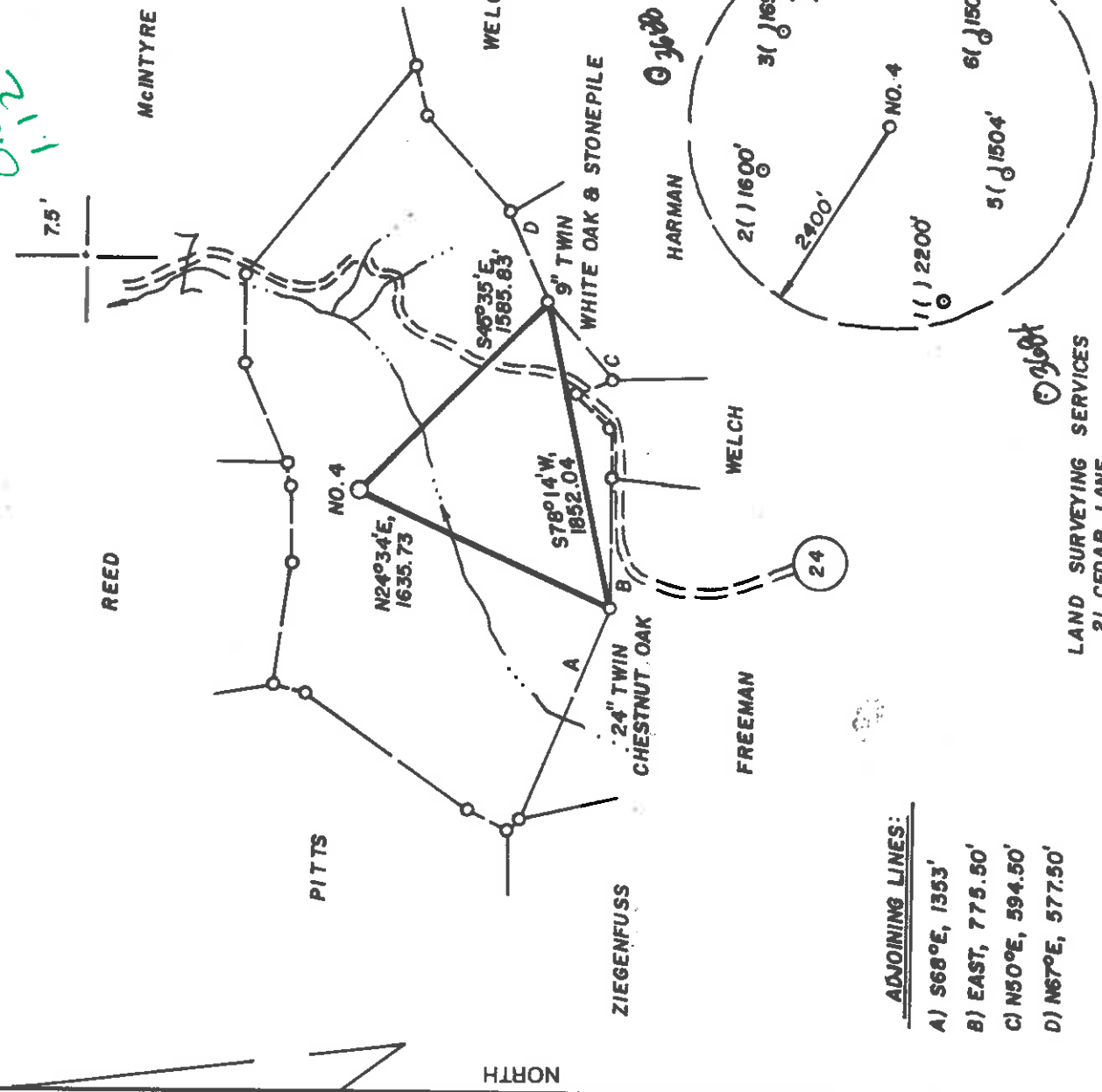
NOV 17 1995

Junie 5/27/90 & 5/27/92

WELL REFERENCES:

N3°W, 99' TO 7" RED MAPLE
N42°E, 134' TO 14" WHITE OAK

5900' LATITUDE 39° 22' 30"
3380' LONGITUDE 80° 45' 00"



ADJOINING LINES:

- A) S68°E, 1353'
- B) EAST, 775.50'
- C) N50°E, 594.50'
- D) N67°E, 577.50'

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 TOP OF KNOB 1170' NW. OF LOC. AT ELEV. 1307'

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. NO. 674
STEPHEN D. LOSH
PLATE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE AUGUST 14, 19 89
OPERATOR'S WELL NO. SANDY 4
API WELL NO. _____

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1102' WATER SHED SANDY RUN
DISTRICT GRANT COUNTY DODDRIDGE
QUADRANGLE WEST UNION 7.5' & 15' & 6'
SURFACE OWNER BILLY ELMORE
OIL & GAS ROYALTY OWNER WM. SANDY LEASE ACREAGE 126.
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 5450'
WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P. O. DRAWER R 847 ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

0000 COUNTY NAME

3825 PERMIT

47-017-3825-W PERMIT

JUN 1 1992

Janie 5/24/90

WELL REFERENCES:

N3°W, 99' TO 7" RED MAPLE
N42°E, 134' TO 14" WHITE OAK

5900'

LATITUDE 39° 22' 30"

LONGITUDE 80° 45' 00"

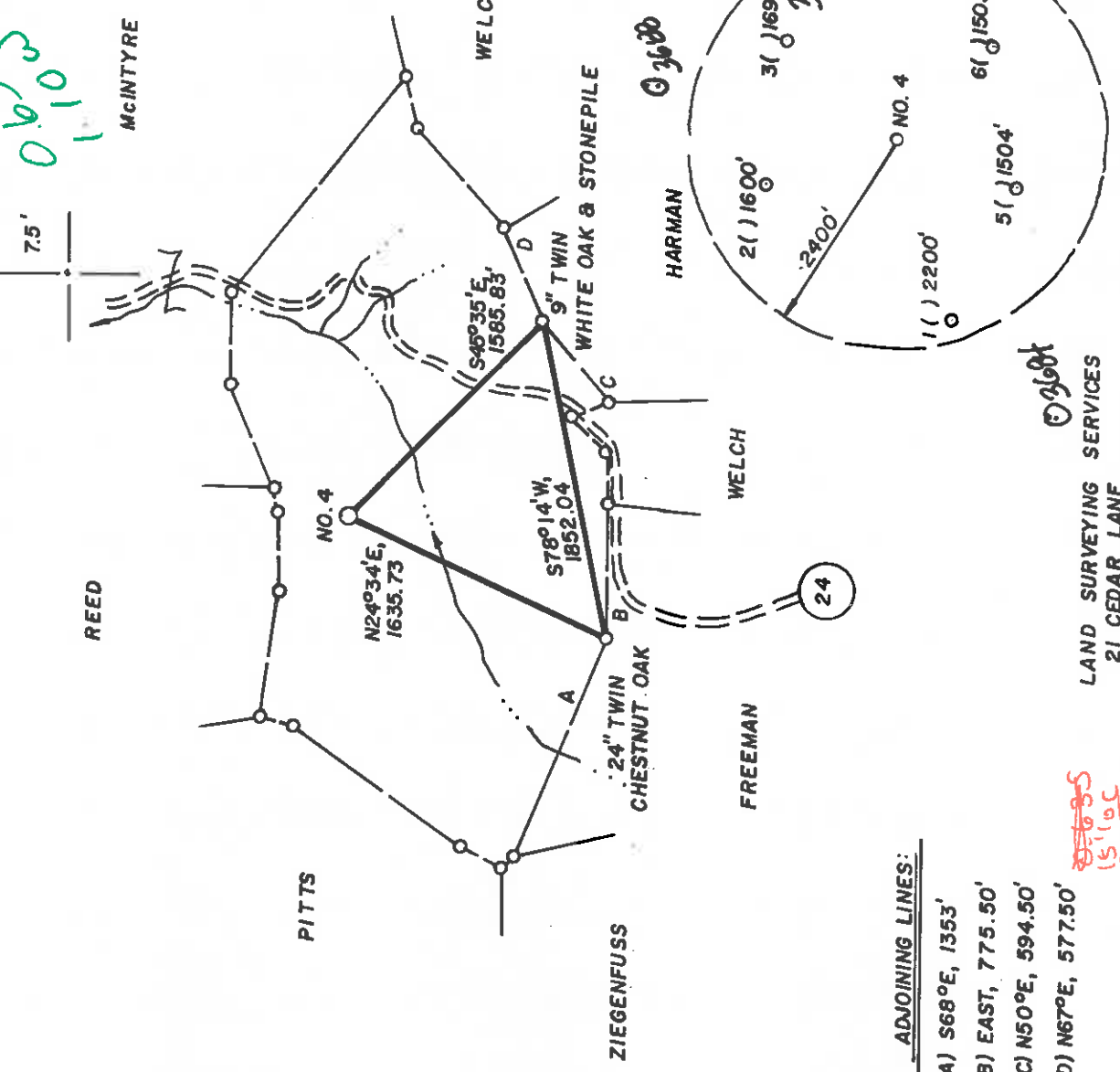
*0.635
1.103*

MCINTYRE

REED

PITTS

NORTH



ADJOINING LINES:

- A) S68°E, 1353'
- B) EAST, 775.50'
- C) N50°E, 594.50'
- D) N67°E, 577.50'

*15.165
3.513
1.103*

D. Losh
 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" = 1,000'
 MINIMUM DEGREE OF _____
 ACCURACY 1 IN 200
 PROVEN SOURCE OF _____
 ELEVATION TOP OF KNOB 1170' NW.
OF LOC. AT ELEV. 1307'

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 (SIGNED) *Stephen D. Losh*
 R.P.E. _____ L.L.S. NO. 674
 STEPHEN D. LOSH

PLACE SEAL HERE



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE AUGUST 14, 19 89
 OPERATOR'S WELL NO. SANDY 4
 API WELL NO. _____

47-017-3825 PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1102' WATER SHED SANDY RUN
 DISTRICT GRANT 3 COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5' 41.5' EC
 SURFACE OWNER BILLY ELMORE
 OIL & GAS ROYALTY OWNER WM. SANDY LEASE ACREAGE 126.
 LEASE NO. _____

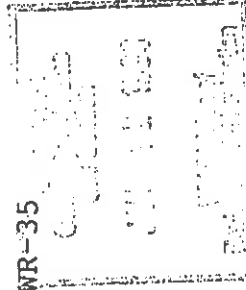
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION BENSON ESTIMATED DEPTH 5450'
 WELL OPERATOR STONEWALL GAS CO. 2417 DESIGNATED AGENT CHARLES CANFIELD
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

JUN 11 1990

6-6 Wilbur (092)

WR-35



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

04-NOV-98
API # 47- 17-03825 W

Reviewed AS

Well Operator's Report of Well Work

Farm name: **ELMORE, BILLY RAY, ETAL** Operator Well No.: **SANDY 4-422-S**

LOCATION: Elevation: **1,102.00** Quadrangle: **WESTON**

District: **GRANT** County: **DODDRIDGE**
Latitude: **3380** Feet South of 39 Deg. 22Min. 30 Sec.
Longitude **5900** Feet West of 80 Deg. 45 Min. Sec.

Company: **DOMINION APPALACHIAN DEVE**
P. O. BOX 1248
JANE LEW, WV 26378-0000

Agent: **JOHN T. HASKINS**

Inspector: **MIKE UNDERWOOD**
Permit Issued: **05/28/92**
Well work Commenced: **5/19/98**
Well work Completed: **5/19/98**
Verbal Plugging
Permission granted on: _____ Rig
Rotary / Cable _____
Total Depth (feet) _____
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

OPEN FLOW DATA

Producing formation **Keener** Pay zone depth (ft) **2044-2060**
Gas: Initial open flow **411** MCF/d Oil: Initial open flow **0** Bbl/d
Final open flow **1100** MCF/d Final open flow **0** Bbl/d
Time of open flow between initial and final tests **7** days
Static rock Pressure **210** psig (surface pressure) after **7** days

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.

Larry J. Cavallo

For: **DOMINION APPALACHIAN DEVELOPMENT, INC.**

By: **Larry J. Cavallo**; Manager of Engineering
Date: _____

JUL 19 1999

DODD 3825 W

WELL	STAGE(S)	PERFS	FRAC	DATE		ISIP
				BBL	BP	
Keener	2044-2060		64		5/19/98	2375#
* no change - see original WR-35						
				70 Quality	2400#	
				Foam 30,000#		
				Sand		
WELL	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS	

RECEIVED

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

JUL 07 1994

WV Division of
Well Operator's Report of Well Work

Operator Name: WILLIAM L. RAY, ETAL Operator Well No.: SANDY 4-422-S

LOCATION: Elevation: 1102.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE
Latitude: 3380 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude: 5900 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS COMPANY

909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23213-0000

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 05/28/92
Well work Commenced: 06/24/92
Well work Completed: 06/24/92
Verbal Plugging
Permission granted on: 11/11/92
Rotary Cable Rig
Total Depth (feet) _____
Fresh water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
	REWORK		

OPEN FLOW DATA

Producing formation KEENER

Gas: Initial open flow 1302 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 200 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 375 psig (surface pressure) after 168 Hours

Second producing formation _____

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] RAY M. FREAR, JR.
Date: JULY 5, 1994 PETROLEUM ENGINEER

JUL 8 1994

OFF

ZONES	PERFS	HOLES	TREATMENT	BREAKDOWN	ISIP
KEENER	2043-2046 2050-2061	56	750 GALS 15% FE ACID	2500	500

13173

RECEIVED
DIVISION OF ENERGY
AUG 06 90

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

Permitting
Oil and Gas Section

Well Operator's Report of Well Work

Farm name: ELMORE, BILLY RAY ETAL Operator Well No.: SANDY #4

LOCATION: Elevation: 1102.00 Quadrangle: WEST UNION

District: GRANT County: DODDRIDGE
Latitude: 3380 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude: 5900 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: MIKE UNDERWOOD
Permit Issued: 06/06/90
Well work Commenced: 06-15-90
Well work Completed: 06-21-90
Verbal Plugging
Permission granted on: _____
Rotary X Cable Rig
Total Depth (feet) 5350
Fresh water depths (ft) _____
Salt water depths (ft) _____
622, 1875
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	168	168	90 SK
8 5/8	1321	1321	360 SK
4 1/2	5237	5237	710 SK

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 5066
 Gas: Initial open flow * MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1841 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 HR Hours
 Static rock pressure 1700 psig (surface pressure) after 168 Hours
 Second producing formation RILEY Pay zone depth (ft) 4612
 Gas: Initial open flow * MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1841 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 HR Hours
 Static rock pressure _____ 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: JULY 25, 1990

AUG 10 1990

2 STAGES WATER FRAC 07-06-90 DATE

ZONES	PERFS	HOLES	BBL	BP	ISIP
ENSON	5066-5071	15	700	1870	1650
ILEY	4612-4642	21	700	2240	2000

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
DIRT	BROWN	0	20		
SAND	TAN	20	55		HOLE DAMP AT 60'
SHALE	GRAY	55	65		
SAND & SHALE	GRAY	65	200		HOLE DAMP @ 622 1/2"
RR & SHALE	GRAY	200	320		
SAND & SHALE	BROWN	320	495		HOLE WET @ 1875 1 1/2 " STREAM
SAND	TAN	495	630		
COAL	GRAY	630	632		GAS CK @ 2050 NO SHOW
SAND	GRAY	632	684		
SAND & SHALE	GRAY	684	900		GAS CK @ 2113 40/10 2" W/M
SHALE & RR	GRAY	900	970		
SAND & SHALE	BROWN	970	1070		GAS CK @ 2175 60/10 2" W/M
RR	GRAY	1070	1280		
SAND & SHALE	BROWN	1280	1320		GAS CK @ 2206 70/10 2" W/M,
RR	GRAY	1320	1750		
SAND & SHALE	GRAY	1750	1815		GAS CK @ 2856 24/10 7" W/W
SAND & SHALE	GRAY	1815	1830		
SAND & SHALE	GRAY	1830	1855		GAS CK @ 3784 22/10 7" W/W
SHALE	GRAY	1855	1890		
SAND	BROWN	1890	1945		GAS CK 5187 24/10 7" W/W
SAND & SHALE	BROWN	1945	1965		
LITTLE LIME	BROWN	1965	1990		
SAND & SHALE	GRAY	1990	2050		
BIG LIME	GRAY	2050	2185		
BIG LIME	GRAY	2185	4630		
SAND & SHALE	BROWN	4630	4660		
RILEY	GRAY	4660	5084		
SAND & SHALE	GRAY	5084	5108		
BENSON	GRAY	5108	5350		
SAND & SHALE	BROWN	5350			
TD					

58901

8110 017-3825

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

Page of
 Issued 06/06/90
 Expires 06/06/92

1) Well Operator: STONEWALL GAS COMPANY 47850 (3) 670

2) Operator's Well Number: SANDY #4 3) Elevation: 1102'

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: 5200' feet

7) Approximate fresh water strata depths: 362' 110'

8) Approximate salt water depths: 1532' 1250' 1/4 PPT. OF ENERGY

9) Approximate coal seam depths: N/A 730' Coal Bottom

10) Does land contain coal seams tributary to active mine? Yes No

11) Proposed Well Work: *April 5 Stimulate New Well*

12)

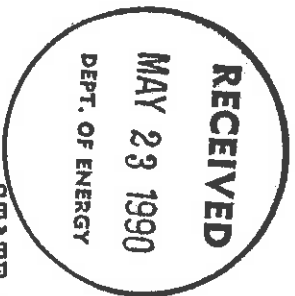
RECEIVED
 MAY 23 1990
 DIV. OF ENERGY

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"	ERW	42#	160' 130'	160' 130'	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"	ERW	23#	1300'	1300'	38 CSR 18-11.3
Production	4 1/2"	ERW	10.5#	5200'	5200'	38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only
 Fee(s) paid: *Plat* Well Work Permit *Plat* Reclamation Fund *Plat* WPCP
 Plat *Plat* WW-9 *Plat* WW-28 *Plat* Bond *Plat* C/D *Plat* Agent



1) Date: MAY 21, 1990
2) Operator's well number SANDY #4 (422-S)
3) API Well No: 47 - 017 - 3825
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 BILLY RAY ELMORE
Address RT 1 BOX 211
WASHINGTON, WV 26181
(b) Name KERMIT DAVID ELLISON
Address C/O BILLY RAY ELMORE
RT 1 BOX 211
(c) Name WASHINGTON, WV 26181
Address _____
Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304) - 782-1043

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.



By: Jane Lew Well Operator
Its: PR PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378-0080
Telephone 304-884-7881
Subscribed and sworn before me this 21 day of MAY, 19 90

Jane Lew My commission expires MAR 14, 2000 Notary Public

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WV 0 Permitted Well Work Permit Application
 Office of Oil and Gas 333
 Well Operator: STONEWALL GAS COMPANY (7) S C (3) 676
 Issued 5/28/92
 Expires 5/28/94

Operator's Well Number: SANDY #4 (422-S) 3) Elevation: 1102

Well type: (a) Oil / or Gas X /
 (b) If Gas: Production X / Undergound Storage Shallow X /
 Deep /

Proposed Target Formation(s): KEENER

Proposed Total Depth: 2044' 2060' feet Original TD: 5350'

Approximate fresh water strata depths: 60'

Approximate salt water depths: 600', 1875'

Approximate coal seam depths: None Reported

Does land contain coal seams tributary to active mine? Yes / No

Proposed Well Work: PERF KEENER 2044-2060 WITH 64 HOLES. CLEAN PERFS WITH 750 GAL OF 15% HCL. RUN 2 3/8 TUBING AND PACKER TO 4450 TO ISOLATE UPPER AND LOWER ZONES. KEENER TO BE USED BY EQUITRANS IN STORAGE FIELD.

See attached Well Work Approval

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	11 3/4"	ERW	42#	168'	168'	90 SKS
Coal						
Intermediate	8 5/8"	ERW	23#	1300'	1300'	360 SKS
Production	4 1/2"	ERW	10.5#	5237'	5237'	710 SKS
Tubing	2 3/4"		4.6	0	4450	0
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

FOR Division of Oil and Gas Use Only
 Fee(s) paid: [initials] Well Work Permit [initials] Reclamation Fund [initials] WPCP
 Plat [initials] WW-9 [initials] Bond [initials] C.D. Blanket (Type) Agent

Well Operator: Stonewall Gas Company

Operator Well No. : Sandy #4 (422-S)

File Number : 47 - 017 - 3825

.....

11.) Proposed well work :

▪ Sandy #4 well will have a plug set just above the Riley formation (approximately 4000 feet). Next fresh water will be added to the well to approximately 2000 feet, followed by a 15% HCl acid solution of 750 gallons, followed by more water treated with clay stabilizers to fill the well. Once the well is full, a cement bond log will be run. Next the Keener formation will be perforated from 2044-2060 with 64 holes, and the acid pumped into the perforated zone. The well will then be cleaned out to the plug. Once the well is cleaned up and the packer drilled out, 2 3/8" tubing with a tubing packer will be run to 4000' to isolate the Keener from the lower formations. The Keener is to be used by Equitrans in their storage field operations.

13673

RECEIVED

WV Division of Environmental Protection

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

1) Date: APRIL 9, 1992
2) Operator's well number SANDY #4 (422-S)
3) API Well No: 47 -017 State - County - Permit 3825-REWORK

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 BILLY RAY ELMORE
Address RT 1 BOX 211 WASHINGTON, WV 26181
(b) Name KERMIT DAVID ELLISON
Address RT 1 BOX 117 RIPLEY, WV 25271
(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 MIKE UNDERWOOD
Address RT 2 BOX 135 SALEM, WV 26426
Telephone (304)782-1043

(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

subscribed and sworn to before me this 9th day of APRIL 19 92



OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
DELOREY QUEL
POST OFFICE DRAWER R
JANE LEW, WV 26378
My Commission Expires

BY: Jane Lew
PRESIDENT
PO DRAWER R
JANE LEW, WV 26378
(304) 884-7881

My commission expires MARCH 14, 2000 Notary Public

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

Well Operator: STONEWALL GAS COMPANY 47850 (3) 670
Operator's Well Number: SANDY #4 (422-S) 3) Elevation: 1102

Well type: (a) Oil or Gas
(b) If Gas: Production Undergound Storage
Deep Shallow 355
Keener

- 5) Proposed Target Formation(s): _____
6) Proposed Total Depth: 2060 feet
7) Approximate fresh water strata depths: 60'
8) Approximate salt water depths: 622'-1975'
9) Approximate coal seam depths: _____

- 10) Does land contain coal seams tributary to active mine? Yes No
11) Proposed Well Work: PERF KEENER 2044-2060 WITH 64 HOLES. CLEAN PERFS WITH 750 GAL OF 15% HCL. RUN 2 3/8 TUBING AND PACKER TO 4450 TO ISOLATE UPPER AND LOWER ZONES. KEENER TO BE USED BY EQUITRANS IN STORAGE FIELD.
12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor					<u>168'</u>	<u>90</u>
Fresh Water					<u>1321'</u>	<u>300</u>
Coal					<u>_____</u>	
Intermediate					<u>_____</u>	
Production					<u>5237</u>	<u>710</u>
Tubing	<u>2 3/4</u>	<u>J55</u>	<u>4.6</u>	<u>0</u>	<u>4450</u>	<u>0</u>
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
Fee(s) paid Well Work Permit Reclamation Fund WPCP
Plat WW-9 WW-2B Bond C.D. [Signature] Agent
(TYPE)

1) Date: OCTOBER 17, 1995
2) Operator's well number SANDY #4 (422-S)
3) API Well No: 47 - 017 - 3825-W
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name BILLY RAY ELMORE
Address RT 1 BOX 211
WASHINGTON, WV 26181
(b) Name KERMIT DAVID ELLISON
Address RT 1 BOX 117
RIPLEY, WV 25271
(c) Name _____
Address _____
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name SAME AS SURFACE
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name N/A
Address _____
6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM WV 26426
Telephone (304) - 782-1043

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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22 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 22-6 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.

My Commission Expires: _____
ORIGINAL SIGN NOTARY PUBLIC
STATE OF WEST VIRGINIA
PO BOX 141
PO BOX 141
PO DRAWER R
JANE JEW, WV 26378
Telephone 304-884-7881

Well Operator STONEMILL GAS COMPANY
BY: _____
Its: _____ VICE PRESIDENT
Address _____
Telephone 304-884-7881
Subscribed and sworn before me this 19th day of October, 1995
My commission expires May 14, 2000 Notary Public