



FILE NO. W-UDI 1-7  
 DRAWING NO. 18-01 VAR 4-19  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION ROAD JUNCTION 6100' ± SE OF LOCATION. ELEV. 955'

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 MINES.  
 (SIGNED) Richard M. Howard  
 R.P.E. \_\_\_\_\_ L.L.S. 706

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE AUGUST 20, 1981  
 OPERATOR'S WELL NO. 93-5H  
 API WELL NO. 47-017-3045  
 STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1242' WATERSHED LITTLE ISAAC CREEK  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7.5' VADIS 15 NE  
 SURFACE OWNER DANIEL H. & ANDREA J. CASEY ACREAGE 41.59  
 OIL & GAS ROYALTY OWNER BURTON DESPARD HEIRS LEASE ACREAGE 84  
 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 ALEXANDER ESTIMATED DEPTH 5500'  
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT R. DENNIS XANDER  
 ADDRESS P.O. Box 225 ADDRESS P.O. Box 225  
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

SEP 28 1981

IV-35  
(Rev 8-81)

SEP 29 1982  
OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date Sept. 22, 1982  
Operator's Well No. 93-Sh  
Farm Despard #1  
API No. 47 - 017 - 3045

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production x / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow x /)

LOCATION: Elevation: 1242 Watershed Little Isaac Creek  
District: Greenbrier County Doddridge Quadrangle Big Isaac 7.5

COMPANY Stonewall Gas Company  
ADDRESS P.O. Drawer F, Buckhannon, WV  
DESIGNATED AGENT Charles W. Canfield  
ADDRESS P.O. Drawer F, Buckhannon, WV  
SURFACE OWNER Daniel H & Andrea Casey  
ADDRESS 1925 S. Quincy St., Arlington Va.  
MINERAL RIGHTS OWNER See Attached  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK Stephen L. Casey ADDRESS Jane Lew, WV  
PERMIT ISSUED Renewed 06/30/82  
DRILLING COMMENCED 8-25-82  
DRILLING COMPLETED 9-2-82  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4	23.45'	23.45'	To Surface
9 5/8			
8 5/8	1430'	1430'	350 Sks.
7			
5 1/2			
4 1/2		5914.30	3600-5924
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5800 feet  
Depth of completed well 5999 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 105, 195 feet; Salt - feet  
Coal seam depths: None Reported Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Elk Pay zone depth 5781-5873 feet  
Gas: Initial open flow 81 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,122 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1700 psig (surface measurement) after 96 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Benson Pay zone depth 5050-5059 feet  
Gas: Initial open flow 81 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1122 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1700 psig (surface measurement) after 96 hours shut in

OCT 18 1982

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

FORM	PERF	HOLES	BRKD	SAND	TOTAL FLUID	ISIP
Elk	<u>5781-5873</u>	12	3200	70,000#	706 BBLs	1500'
Benson	<u>5050-5059</u>	12	NA	70,000#	686 BBLs	1450

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill	br	s	0	15	Water @ 105, 195
Shale	gr	s	15	88	No coals
Sand	w	h	88	195	
Shale	rd & gr	s	195	230	
Sand	w	h	230	370	
Shales	rd & gr	s	370	570	
Sand	w	h	570	700	
Shale	gr	s	700	845	
Sand	w	h	845	870	
Shales	rd & gr	s	870	2145	
Big Lime	gr	h	2145	2200	
Sand	w	h	2200	2295	
Shale	gr	s	2295	2755	
Sand	w	h	2755	2890	
Shale	gr	s	2890	5045	
Benson	br	m	5045	5085	Show Gas @ 5055
Shale	gr	s	5085	5335	
Elk	br	m	5335	5440	Show gas at 5360
Shale	gl	s	5440	5755	
Siltstone	br	m	5755	5815	
Shale	gr	s	5815	5999	✓Gas @ TD 81 MCF
Total Depth	<u>Elk - 436</u>			<u>5999</u>	

5999  
5585 - ~ as deepest  
414' Elk prev. prod.  
expl. fty. in 0172980

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

By: Charles W. Carfell

Date: SEP 24 1982

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including <sup>encountered</sup>, encountered in the drilling of a well."

WELL # 93-SH

17-3043

WELL NAME Burton Despard Heirs #1

DATE 09/20/82

PROGRAM 82-1

BY CC

- ROYALTY DISTRIBUTION -

SOCIAL SECURITY #	NAME	PERCENTAGE
<u>235-58-9615</u>	<u>Guy R. Brown</u> <u>Route 3</u> <u>Salem, WV 26426</u>	<u>.0625000</u>
<u>55-6025047</u>	<u>The Parkersburg National Bank, Trustee</u> <u>under will of C. S. Despard Jr.</u> <u>Parkersburg, WV 26101</u>	<u>.0133102</u>
<u>233-50-8521</u>	<u>Mary Bukey Welch</u> <u>3 Edgewood Drive</u> <u>Parkersburg, WV 26101</u>	<u>.0133102</u>
	<u>J. Cecil Jarvis, individually and as</u> <u>Trustee and attorney-in-fact for the</u> <u>Despard Heirs</u> <u>Empire Bank Building</u> <u>Clarksburg, WV 26301</u>	<u>.0185184</u>
<u>526-10-5048</u>	<u>George Marthens</u> <u>5021 Baltan Road</u> <u>Bethesda, MD 20816</u>	<u>.0043403</u>
<u>62-6108203</u>	<u>The Park National Bank of Knoxville, TN</u> <u>As Trustee under will of Louise Goff Reece</u> <u>P. O. Box 511</u> <u>Knoxville, TN 37901</u>	<u>.0043403</u>
<u>235-44-3888</u>	<u>H. Dotson Cather</u> <u>163 East Main Street</u> <u>Clarksburg, WV 26301</u>	<u>.0043403</u>
	<u>Laura Goff Davis</u> <u>P. O. Box 707</u> <u>Clarksburg, WV 26301</u>	<u>.0043403</u>

- OVERRIDING ROYALTY -

<u>233-66-7544</u>	<u>Clarence W. Mutschelknaus</u> <u>Route 1, Box 52</u> <u>Salem, WV 26426</u>	<u>.020000</u>
<u>233-68-8440</u>	<u>Patrick D. Deem</u> <u>1266 Briercliff</u> <u>Bridgeport, WV 26330</u>	<u>.0133500</u>
	<u>Sterling Drilling &amp; Production Co. Inc.</u> <u>710 Virginia Street, East, Arcade Bldg.</u> <u>Charleston, WV 25301</u>	<u>.00665</u>
<u>234-10-5932</u>	<u>J. Robert Hornor</u> <u>P. O. Box 225</u> <u>Clarksburg, WV 26302-0225</u>	<u>.16000</u>

OCT 18 1982



Date: June 28, , 1982  
Operator's Well No: Despard Heirs #1 (93-S)  
API Well No. 47 017 3045 **RENEWED**  
State County Permit

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

WELL TYPE: Oil        / Gas   x   /  
(If "Gas", Production   x   / Underground storage        / Deep        / Shallow   x   /)

LOCATION: Elevation: 1242 Watershed: Little Isaac Creek  
District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7.5'

WELL OPERATOR Stonewall Gas Company DESIGNATED AGENT Charles W. Canfield  
Address P. O. Drawer F Address P. O. Drawer F  
Buckhannon, WV 26201 Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER See Attached Sheet COAL OPERATOR Willis Tetrick et al  
Address        Address Union National Center  
       Clarksburg, WV 26301

ACREAGE 84 acres COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name         
Address RECEIVED  
        
Name JUN 30 1982  
Address OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

FIELD SALE (IF MADE) TO:  
Address Unknown

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Stephen L. Casey  
Address Jane Lew, WV

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed        / lease   x    
other contract        / dated March 3 , 1981 , to ~~the undersigned well operator from~~ Eastern Energy  
Resources and subsequently assigned to the undersigned well operator.  
(If said deed, lease, or other contract has been recorded:)

Recorded on May 7 , 1981 , in the office of the Clerk of the County Commission of Doddridge County, West  
Va. , in Deed Book 120 at page 351 . A permit is requested as follows:

PROPOSED WORK: Drill   x   / Drill deeper        / Redrill        / Fracture or stimulate        /  
Plug off old formation        / Perforate new formation        /  
Other physical change in well (specify)         
        
—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to  
make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the  
Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to  
the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to  
the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY  
TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMIS-  
SION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

STONEWALL GAS COMPANY  
By Charles W. Canfield Well Operator  
Its Charles W. Canfield  
Production Superintendent

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown  
Address \_\_\_\_\_  
\_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools \_\_\_\_\_ /  
Approximate water strata depths: Fresh, 117, 292 feet; salt, 392 feet.  
Approximate coal seam depths: ----- Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor									Kinds
Fresh Water						<u>330'</u>	<u>330'</u>	<u>CTS</u>	
Coal									Sizes
Intermediate	<u>8 5/8</u>	<u>J55</u>		<u>X</u>		<u>1314'</u>	<u>1314'</u>	<u>330 sacks</u>	
Production	<u>4 1/2</u>	<u>ERW</u>		<u>X</u>		<u>5500'</u>	<u>5500'</u>	<u>400 sacks</u>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling, renewed THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 3-9-83  
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_ By \_\_\_\_\_  
Its \_\_\_\_\_



Date: August 20, 1981

Operator's Well No. 93-S

API Well No. 47 - 017 - 3045  
State County Permit

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

OIL AND GAS WELL PERMIT

WELL TYPE: Oil          / Gas x         /  
(If "Gas", Production x         / Underground storage          / Deep          / Shallow x         /)

LOCATION: Elevation: 1242' Watershed: Little Isaac Creek  
District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7.5'

WELL OPERATOR Stonewall Gas Company DESIGNATED AGENT R. Dennis Xander  
Address P. O. Box 225 Address P.O. Box 225  
Clarksburg, WV 26302-0225 Clarksburg, WV 26302-0225

OIL & GAS ROYALTY OWNER (See attached sheet) COAL OPERATOR Virginia Tetrick  
Address          Address Union National Center  
         Clarksburg, WV 26301

ACREAGE 84 acres COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Daniel H. & Andrea J. Casey Name           
Address 1925 South Quincy Street Address           
Arlington, VA 22204           
ACREAGE 73 acres Name         

FIELD SALE (IF MADE) TO: Address           
Address          Address         

OIL & GAS INSPECTOR TO BE NOTIFIED COAL LESSEE WITH DECLARATION ON RECORD:  
Name Stephen L. Casey Address           
Address Jane Lew, WV           
884-7470         

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed          / lease X          
other contract          / dated March 3, 1981, to ~~the undersigned well operator from~~ Eastern Energy  
Resources and subsequently assigned to the undersigned well operator.  
(If said deed, lease, or other contract has been recorded:)

Recorded on May 7, 1981, in the office of the Clerk of the County Commission of Doddridge County, West  
Virginia in Deed Book 120 at page 351. A permit is requested as follows:

PROPOSED WORK: Drill x         / Drill deeper          / Redrill          / Fracture or stimulate          /  
Plug off old formation          / Perforate new formation          /  
Other physical change in well (specify)           
          
        —planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to  
make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the  
Department.  
Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to  
the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to  
the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY  
TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMIS-  
SION  
STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

RECEIVED  
AUG 28 1981  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

STONEWALL GAS COMPANY  
R. Dennis Xander  
Well Operator  
By R. Dennis Xander  
Its Manager

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 117 feet; salt, --- feet.

Approximate coal seam depths: - Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft			For drilling	Left in well			
Conductor	11 3/4	K55			X	30'			Kinds	
Fresh Water										
Coal	8 5/8	J55		X		1314'	1314'	330 sacks	Sizes	
Intermediate										
Production	4 1/2	ERW		X		5500'	5500'	400 sacks	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-16-82

*Fred R. Rudette*  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By: \_\_\_\_\_  
Its: \_\_\_\_\_



OIL AND GAS OWNERS

Mary Bukey Welch, et. als.  
3 Edgewood Drive  
Parkersburg, WV 26101

Genevieve Rapp  
304 Rosemont Avenue  
Clarksburg, WV 26301

Guy Brown  
Route 3  
Salem, WV 26426

Frank P. Mason  
401 Quincy Avenue  
Clarksburg, WV 26301

Leeman W. Mason, Agent  
Middlebourne, WV 26149

RECEIVED

JUN 30 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

OIL AND GAS OWNERS

Mary Bukey Welch, et. als.  
3 Edgewood Drive  
Parkersburg, WV 26101

Genevieve Rapp  
304 Rosemont Avenue  
Clarksburg, WV 26301

Guy R. Brown  
Route 3,  
Salem, WV 26426

Frank P. Mason  
401 Quincy Avenue  
Clarksburg, WV 26301

Leeman W. Mason, Agent  
Middlebourne, WV 26149

RECEIVED

AUG 28 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES