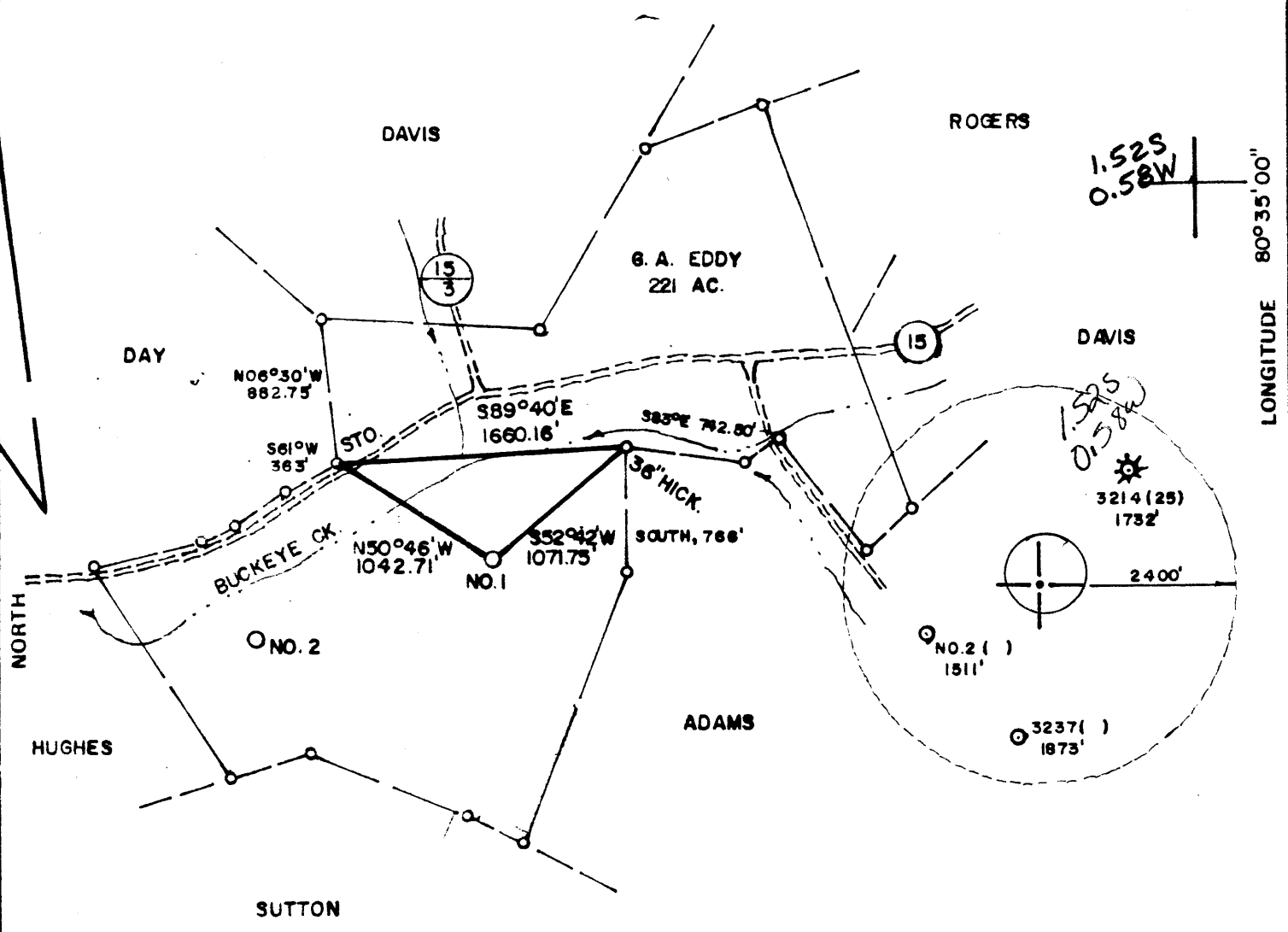


LATITUDE 39° 15' 00"

1.525  
0.58W

LONGITUDE 80° 35' 00"



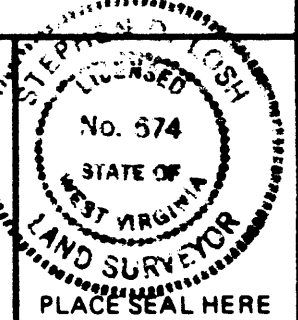
WELL REFERENCES:  
 N78°45'E, 104' TO 26" C. OAK  
 N33°E, 110' TO A 4" SUGAR

LAND SURVEYING SERVICES  
 1412 N. 18TH ST.  
 CLARKSBURG, WV 26301  
 PHONE 304-623-1214

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 1000' NORTH OF LOCATION ELEV. - 918'

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) Stephen D. Losh  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JULY 06, 19 84  
 OPERATOR'S WELL NO. EDDY NO. 1  
 API WELL NO. 47 - 017 - 3352  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1106' WATER SHED BUCKEYE CREEK  
 DISTRICT GREENERIER 4 COUNTY DOODRIDGE  
 QUADRANGLE 252BIG ISAAC 75 min. 123 Vadis 15 NCL  
 SURFACE OWNER JAMES L. DUKATE ACREAGE 80.18  
 OIL & GAS ROYALTY OWNER GEORGIA A EDDY LEASE ACREAGE 221  
 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 CHARLES CANFIELD  
 ADDRESS 847 P.O. DRAWER F ADDRESS P.O. DRAWER F  
 BUCKHANNON, WV 26201 BUCKHANNON, WV 26201



IV-35  
(Rev 8-

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OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 17, 1984  
Operator's  
Well No. Eddy #1 (241-S)  
Farm Eddy  
API No. 47 - 017 - 3352

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: 1106 Watershed Buckeye Creek  
District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY Stonewall Gas Company  
ADDRESS PO Drawer F, Buckhannon, WV 26201  
DESIGNATED AGENT Charles W. Canfield  
ADDRESS PO Drawer F, Buckhannon, WV 26201  
SURFACE OWNER James L. Dukate  
ADDRESS Rt. 1, Box 252, Salem, WV 26426  
MINERAL RIGHTS OWNER Helen Eddy, et al  
ADDRESS 27 Grandview Blvd., Los Angeles, CA  
OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Rt 2, Box 114, Salem, WV

PERMIT ISSUED August 29, 1984  
DRILLING COMMENCED November 20, 1984  
DRILLING COMPLETED November 30, 1984

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.			
13-10"			
11 3/4 9 5/8	152	152	80 sks
8 5/8	1822	1822	380 sks
7			
5 1/2			
4 1/2	5558	5558	500 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5380 feet  
Depth of completed well 5558 feet Rotary x / Cable Tools     
Water strata depth: Fresh 65 feet; Salt    feet  
Coal seam depths: 175 Is coal being mined in the area? N/A

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5380 feet  
Gas: Initial open flow 145 Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 286 Mcf/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 1440 psig (surface measurement) after 72 hours shut in  
(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 5058 feet  
Gas: Initial open flow 100 Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 286 Mcf/d Oil: Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 1440 psig (surface measurement) after    hours shut in

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

December 8, 1984

	PERFS	HOLES	BREAKDOWN	BBL	SAND	ISISP
Alexander ?	5340-5384	11	2700#	600	60,000	1900#
Benson ?	5050-5055	16	3000#	700	70,000	1800#
Balltown ?	3475-3552	11	1700#	600	60,000	1200#

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		B S	0	5	
Red Rock		R S	5	40	Hole wet at 65' 1/2" stream
Shale		G H	40	105	
Shale & Red Rock		G H	105	175	
Coal		B H	175	178	Hole wet at 190' 1/2" stream
Sand & Shale		G H	178	627	
Red Rock & Shale		R M	627	1838	
Shale		G H	1838	1900	
Big Lime		B S	1900	1948	
Big Injun		B S	1948	2052	Gas at 2491 No show
Shale & Sand		G M	2052	2340	
Gantz		B S	2340	2344	Gas at 2771 No show
Shale & Sand		G M	2344	2916	
Shale & Sand		BG M	2916	3686	Gas at 2863 odor No show
Balltown ?		B M	3686	3847	Gas at 3517 No show
Shale & Sand		BG M	3847	4836	
Benson ?		B M	4836	4857	Gas at 4292 2/10 2" H <sub>2</sub> O
Sand & Shale		G H	4857	5117	Gas at 4698 2/10 2" H <sub>2</sub> O
Alexander ?		B H	5117	5216	
			TD	5600	Gas at 5039 6/10 2" H <sub>2</sub> O
				ELK @ TD	Gas at 5475 6/10 2" H <sub>2</sub> O
					Gas at TD 16/10 1" H <sub>2</sub> O

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

By: Benjamin A. Hunt Vice President

Date: December 17, 1984

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 coal, encountered in the drilling of a well."



1) Date: August 1, 19 84  
 2) Operator's Well No. Eddy #1 (241-S)  
 3) API Well No. 47 - 017 - 3352  
 State County Permit

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

- 4) WELL TYPE: A  Oil  Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )  
 5) LOCATION: Elevation: 1106 Watershed: Buckeye Creek (OM147)  
 District: Greenbrier County: Doddridge Quadrangle: Big Isaac  
 6) WELL OPERATOR Stonewall Gas Company 7) DESIGNATED AGENT Charles W. Canfield  
 Address PO Drawer F Address PO Drawer F  
Buckhannon, WV 26201 Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Mike Underwood (782-1043) Name S. W. Jack Drilling  
 Address Rt. 2, Box 114 Address \_\_\_\_\_  
Salem, WV 26426 Buckhannon, WV 26201  
 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Alexander  
 12) Estimated depth of completed well, 5500 feet  
 13) Approximate trata depths: Fresh, 100 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 255, 585, 900 Is coal being mined in the area? Yes \_\_\_\_\_

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OIL & GAS DIVISION  
 No. X  
**DEPT. OF MINES**

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	11 3/4				X	140	140	To surface Kinds
Fresh water								
Coal								Sizes
Intermediate	8 5/8			X		1179	1179	As required by Rule 1501
Production	4 1/2			X		5275	5275	As required by Rule 1501
Tubing								
Liners								Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3352 Date August 29, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires August 29, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>150</u> BLANKET	Agent: <u>ls</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1637</u>
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Margaret J. Hesse  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.