

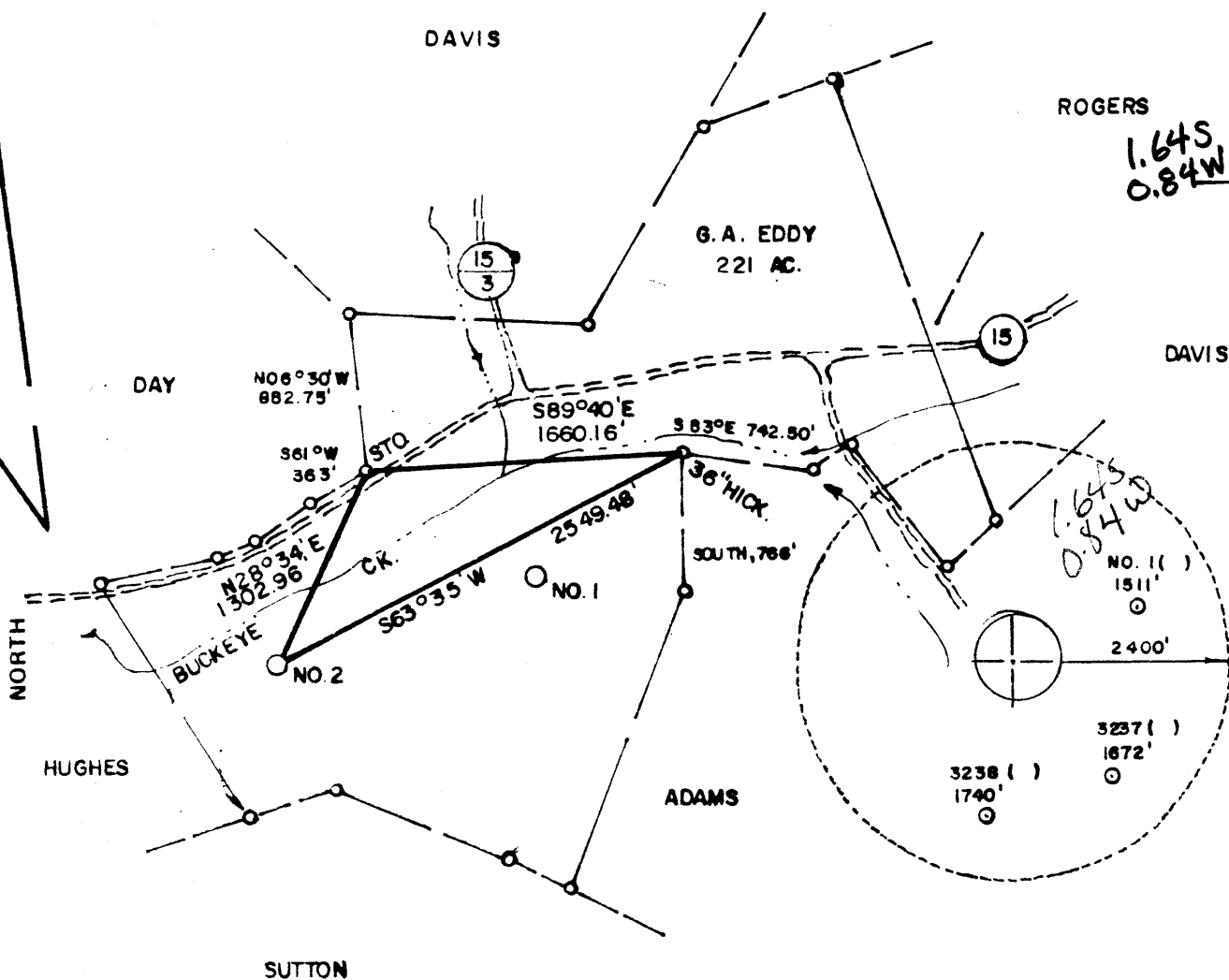
DAVIS

ROGERS

1.64S
0.84W

LONGITUDE 80°35'00"

8630



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

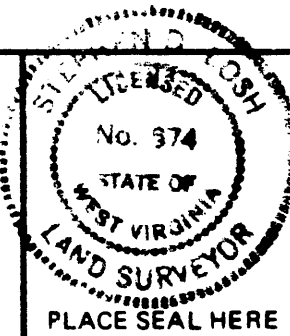
WELL REFERENCES:

553°E, 110.50' TO 12" WALNUT
 341°45'W, 119' TO 4" W. ASH

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 2100' N.E. 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 09, 19 84
 OPERATOR'S WELL NO. EDDY NO. 2
 API WELL NO. 47 - 017 - 3351
 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 1018' WATER SHED BUCKEYE CREEK

DISTRICT 4 GREENBRIER COUNTY DODDRIDGE

QUADRANGLE 252 BIG ISAAC 75 min 123 Davis 15' NC2

SURFACE OWNER JAMES L. DUKATE ACREAGE 53.90

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 5400' 6.6
 OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD Meathouse Fork-
 ADDRESS 847 P.O. DRAWER F ADDRESS P.O. DRAWER F Bristol (146)
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

SEP 4 1984

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OCT 1 - 1984



IV-35
(Rev 8-81)

OCT 1 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

DEPT. OF MINES

State of West Virginia

Department of Mines

Oil and Gas Division

Date September 27, 1984

Operator's

Well No. Eddy #2 (247-S)

Farm Eddy

API No. 47 - 017 - 3351

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: 1018 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 427 Grandview Blvd., Los Angeles, CA

OIL AND GAS INSPECTOR FOR THIS WORK 90066 Mike

Underwood ADDRESS Rt.2, Box 114, Salem,

PERMIT ISSUED August 29, 1984 WV 26426

DRILLING COMMENCED September 12, 1984

DRILLING COMPLETED September 17, 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.			
11 3/4 13-10"	258	258	150 sks
9 5/8			
8 5/8	1848	1848	390 sks
7			
5 1/2			
4 1/2	5403	5403	450 sks
3			
2		5250	
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5216 feet

Depth of completed well 5430 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 60 feet; Salt 980 feet

Coal seam depths: 110-113 Is coal being mined in the area? N/A

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5216 feet

Gas: Initial open flow 112 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 787 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 15 hours

Static rock pressure 1750 psig (surface measurement) after 15 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 4850 feet

Gas: Initial open flow 112 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 787 Mcf/d Oil: Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A hours

Static rock pressure 1750 psig (surface measurement) after 15 hours shut in

NOV 05 1984
(Continue on reverse side)

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

Frac	PERFS	HOLES	BRKD	BBLs	SAND	ISIP
09-25-84		Two Stages				
Alexander	5286-5274	10	3300#	700	70,000	1900#
Benson	4871-4994	10	2800#	700	70,000	1900#

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock	R	H	0	5	
Sand	B	S	5	30	
Sand & Shale	G	M	30	110	H ₂ O
Coal	B	H	110	113	
Shale	G	M	113	150	
Sand	B	S	150	200	
Red Rock & Shale	G	H	200	355	
Sand & Shale	B	M	355	1265	H ₂ O
Sand & Shale	B	H	1265	1984	Gas ck @ 2171 6/10 2" H ₂ O
Big Lime	B	S	1984	2140	Gas ck @ 2481 6/10 2" H ₂ O
Big Injun	B	S	2140	2175	
Sand & Shale	G	M	2175	2360	
Gantz	B	S	2360	2368	Gas ck @ 2728 8/10 2" H ₂ O
Sand shale & Red Rock	BR	S	2368	3600	Gas ck @ 2885 24/10 2" H ₂ O
Balltown	B	S	3600	3810	Gas ck @ 3226 24/10 2" H ₂ O
Sand & Shale	B	M	3810	4100	Gas ck @ 3568 85/10 2" H ₂ O
Sand & Shale	B	M	4100	4910	Gas ck @ 3848 76/10 2" H ₂ O
Benson	B	S	4910	4932	Gas ck @ 4312 10/10 2" H ₂ O
Shale	G	M	4932	5110	Gas ck @ 4467 30/10 2" H ₂ O
Alexander	B	S	5110	5225	Gas ck @ 4872 60/10 2" H ₂ O
TD hole			5430		Gas ck @ TD 10/10 2" H ₂ O Alexander

(Attach separate sheets as necessary)

Stonewall Gas Company

Well Operator

Benjamin A. Hardesty

By: Benjamin A. Hardesty, Vice President

Date: September 27, 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, 1984
 2) Operator's Well No. Eddy #2 (247-S)
 3) API Well No. 47 - 017 - 3351
 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: 1018 Watershed: Buckeye Creek
 District: Greenbrier County: Doddridge Quadrange: OMI 47 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
 Address Rt. 2, Box 114 Address Buckhannon, WV 26201
Salem, WV 26426

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, 5400 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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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	Left in well			
Conductor	11 3/4				X	140	140	To surface	Kinds	
Fresh water										
Coal									Sizes	
Intermediate	8 5/8			X		1179	1179	230 sks As	required rule 1508	
Production	4 1/2			X		5275	5275	130 sks As	required rule 1501	
Tubing										
Liners									Perforations:	
									Top Bottom	

OIL & GAS DIVISION
 DEPT. OF MINES

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3351 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>	Agent: <u>LO</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.

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

File