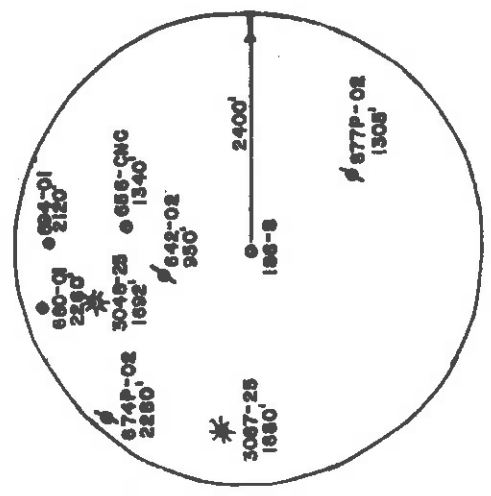
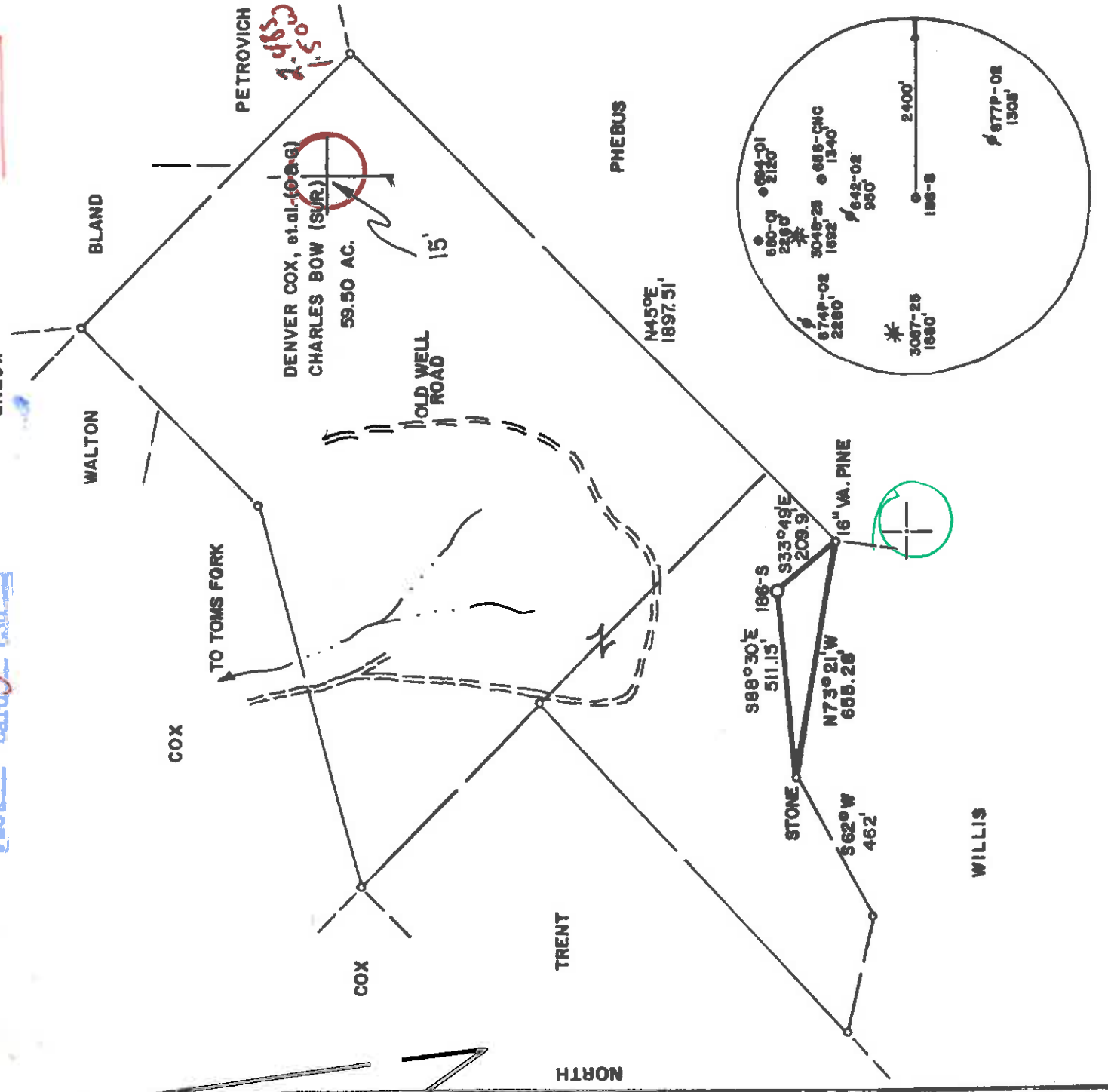


6-8-83

Plot Card CSD

8030' LATITUDE 39° 15' 00"

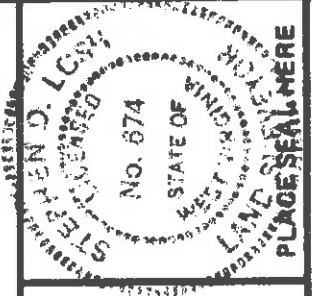
12,970' LONGITUDE 80° 40' 00"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 200'  
 SE OF LOCATION ELEV. 1357'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

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



DATE FEBRUARY 15, 19 83  
 OPERATOR'S WELL NO. 186-S  
 API WELL NO. 47-017 DENVER COX NO. 2  
 STATE CO COUNTY PERMIT

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

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

LOCATION: ELEVATION 1270' WATER SHED TOMS FORK

DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5 min. Radius 15' NW ACREAGE 14  
 SURFACE OWNER CHARLES BOW

OIL & GAS ROYALTY OWNER DENVER COX, et. al. LEASE ACREAGE 59.50  
 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 5750'  
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT CHARLES CANFIELD  
 ADDRESS P.O. DRAWER F ADDRESS BUCKHANNON, WV 26201  
New Milton North (144)

JUN 21 1983

OCT 23 1983

IV-35  
(Rev 8-81)

RECEIVED

OCT 19 1983



State of West Virginia

Department of Mines  
Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date October 10, 1983  
Operator's Well No. 186-S  
Farm Cox #2  
API No. 47 - 017 - 3225

WELL TYPE: Oil / Gas XX / Liquid Injection / Waste Disposal / Shallow xx /  
(If "Gas," Production XX / Underground Storage / Deep /

LOCATION: Elevation: 1270 Watershed Toms Fork  
District: New Milton County Doddridge Quadrangle New Milton

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 Charles Bow  
ADDRESS 1581 Parkland Dr., Lancaster, OH  
MINERAL RIGHTS OWNER Denver Cox, et al  
ADDRESS Rt. 1, New Milton, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey  
ADDRESS Rt. 2, Jane Lew, WV  
PERMIT ISSUED June 16, 1983  
DRILLING COMMENCED August 24, 1983  
DRILLING COMPLETED August 30, 1983  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1763	1763	400 sks
7			
5 1/2			
4 1/2	5627	5627	550 sks
3			
2" tubing		5539	
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5633' feet  
Depth of completed well 5800 feet Rotary XX / Cable Tools  
Water strata depth: Fresh 246 feet; Salt 1650 feet  
Coal seam depths: 565 Is coal being mined in the area? No.

OPEN FLOW DATA

Producing formation Elk Pay zone depth 5552-60 feet  
Gas: Initial open flow trace Mcf/d Oil: Initial open flow None Bbl/d  
Final open flow 1100 Mcf/d Final open flow None Bbl/d

Time of open flow between initial and final tests 72 hours  
Time of open flow between initial and final tests after 48 hours shut in

Static rock pressure 1748 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 5263-66 feet

Gas: Initial open flow trace Mcf/d Oil: Initial open flow None Bbl/d  
Final open flow 1100 Mcf/d Oil: Final open flow None Bbl/d

Time of open flow between initial and final tests 72 hours  
Time of open flow between initial and final tests after 48 hours shut in

Static rock pressure 1748 psig (surface measurement) after 48 hours shut in

(Continue on reverse side)

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

Frac.	09-06-83	4 stage,	HOLES	BRKD	BBLS	SAND	ISIP
	PERFS.						
<del>Elk</del> <sup>Clay</sup> <del>5575</del>	5552-60	5573-75	10	1350	600	75,000	1200
Benson	5263-66	5158-60	9	1800	600	60,000	1100
Balltown	<del>4491</del> 4488-91	4342-46	9	2700	750	50,000	1300
Spechley	3750- <sup>3750</sup>	3694-3700	12	1100	750	75,000	1100

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top Soil	br	s	0	15	
Sand & Shale	w	h	15	73	1" stream water at 42'
Shale	gr	s	73	150	
Sand & Shale	rd	s	150	370	
Sand	w	h	370	565	
Coal	b	s	565	573	
Shale & red rock	rd	s	573	1000	
Sand & Shale	br	m	1000	1250	1" stream water at 1220'
Sand & Shale	br	m	1250	2100	
Morton	br	m	2100	2226	
Little Lime	br	h	2226	2336	
Sand	w	h	2336	2354	
Big Lime	br	h	2354	2452	
Big Injun	w	h	2452	2498	
Sand	w	h	2498	2700	
Shale	gr	s	2700	4420	
Balltown	br	m	4420	4578	
Shale	gr	s	4578	5343	
Benson	br	m	5343	5348	
Shale	gr	s	5348	5633	
Elk	<del>clay</del>	br	5633	5696	
TD			5696	5800	

Clay TD.

(Attach separate sheets as necessary)

STONEMALL GAS COMPANY  
Well Operator  
By: Benj. A. Hardesty, Vice Pres.  
Date: \_\_\_\_\_

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 sand, encountered in the drilling of a well."





1) Date: May 31, 19 83  
 2) Operator's Well No. COV 12 116-A  
 3) API Well No. 47 017 State West Virginia County Putnam Permit 10

**DRILLING CONTRACTOR:** Unknown  
**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF MINES, OIL AND GAS DIVISION**  
**OIL AND GAS WELL PERMIT APPLICATION**

- 4) WELL TYPE: A Oil  Gas  B (If "Gas", Production)  Underground storage  Deep  Shallow   
 Elevation: 1,770 Watershed: Appalachian Plateau  
 District: Putnam County: Putnam Quadrangle: Mapleton
- 5) LOCATION: Mapleton  
 District: Putnam County: Putnam Quadrangle: Mapleton
- 6) WELL OPERATOR Putnam Coal Co.  
 Address: Putnam, WV 26201
- 7) OIL & GAS ROYALTY OWNER Demyer Cos., et al  
 Address: Putnam, WV 26201
- 8) SURFACE OWNER Putnam Coal Co.  
 Address: Putnam, WV 26201
- 9) FIELD SALE (IF MADE) TO: Putnam  
 Address: Putnam, WV 26201
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name: Stephen Lacey (604-7470)  
 Address: Putnam, WV 26201
- 11) DESIGNATED AGENT  
 Name: Putnam Coal Co.  
 Address: Putnam, WV 26201
- 12) COAL OPERATOR  
 Name: Putnam Coal Co.  
 Address: Putnam, WV 26201
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name: Putnam Coal Co.  
 Address: Putnam, WV 26201
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name: Putnam Coal Co.  
 Address: Putnam, WV 26201

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS	CEMENT-FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.			
Conductor	16					
Fresh water	16 3/4		48	30		
Coal	8 5/8	23	23	60		
Intermediate Production	4 1/2	10.5	10.5	1230		
Tubing				5750		
Liners						

- 21) EXTRACTION RIGHTS  
 Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS  
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No   
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)  
 24) 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.
- Notary: \_\_\_\_\_ Signed: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

Permit number: 27-017-10 Date: May 31, 1983  
**OFFICE USE ONLY**  
**DRILLING PERMIT**

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. 10) 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.)  
 Permit expires February 16, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) 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.

.....  
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 \_\_\_\_\_