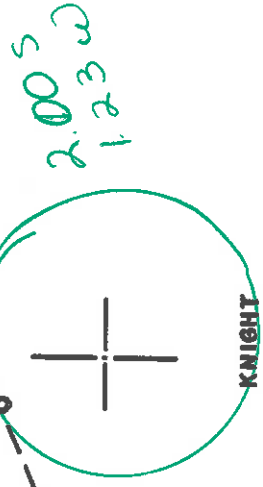
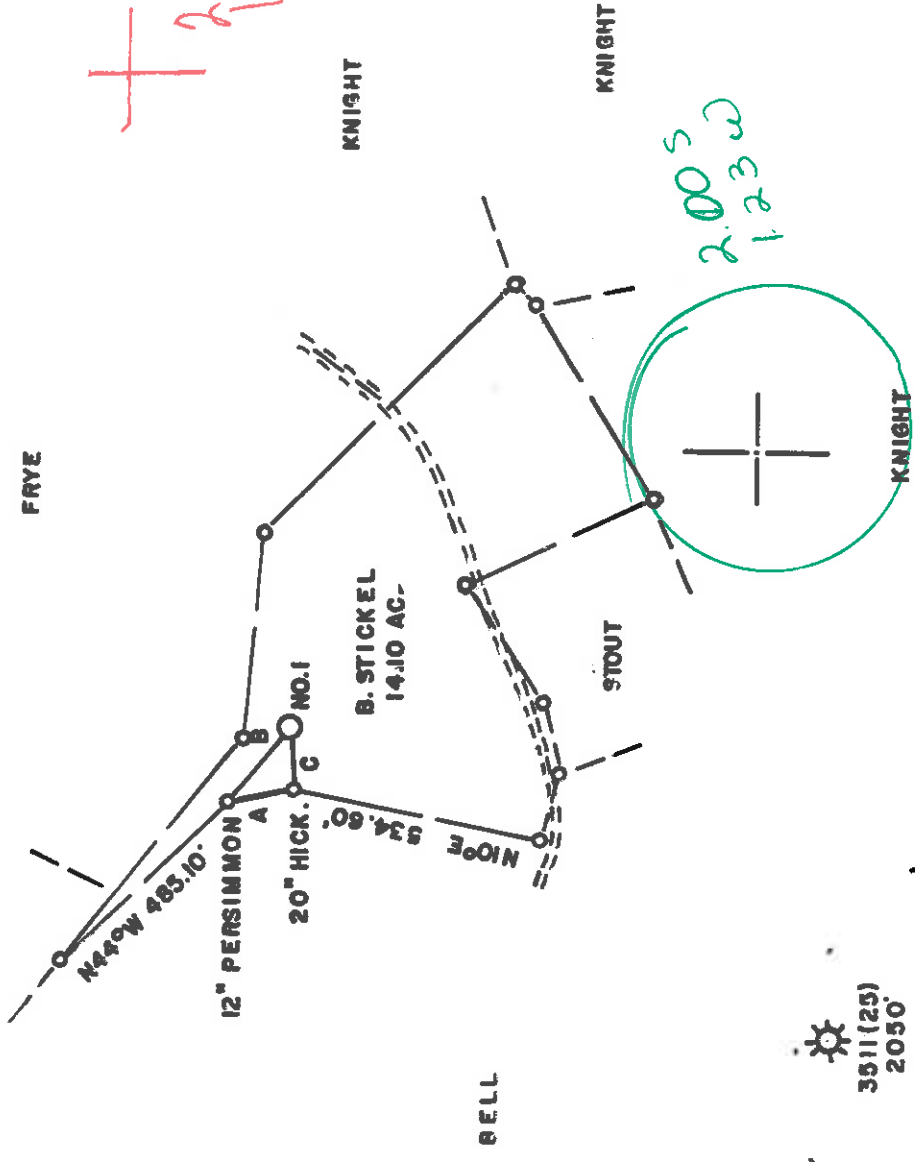


As 5/18/87

LATITUDE 39° 15' 00"

LONGITUDE 80° 35' 00"

TIE LINES:
 A - N06°26'W, 142.67'
 B - S49°57'E, 201.73'
 C - S65°09'W, 133.99'



3511(25)
2050'

2400'
NO. 1

3128(25)
1568'

NOTE: USE TIE LINES AS WELL REFERENCES.

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" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 1200' N.E. OF LOCATION ELEV. - 913'

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. 674

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 15, 19 87
 OPERATOR'S WELL NO. ROSS NO. 1
 API WELL NO. _____

47 017 3548
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1153' WATER SHED INDIAN FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 252
 SURFACE OWNER BLONDA STICKEL, et al.
 OIL & GAS ROYALTY OWNER BLONDA STICKEL, et al. LEASE ACREAGE 14.10

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5550'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES GANFIELD
 ADDRESS F.O. DRAWER R 847 JUN 08 1987 ADDRESS P.O. DRAWER R JANE LEW, WV 26376

6-6 Zinnia (145)



RECEIVED
SEP 30 1987

State of West Virginia

Date SEPTEMBER 28, 87

Operator's

Well No. ROSS #1 176-S

Farm ROSS

API No. 47 - 017 - 3548

DEPARTMENT OF ENERGY

Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: 1153 Watershed INDIAN FORK
District: GREENBRIER County DODDRIDGE Quadrangle BIG ISAAC

COMPANY STONEWALL GAS COMPANY

ADDRESS PO DRAWER R, JANE LEW, WV 26378

DESIGNATED AGENT CHARLES W. CANFIELD

ADDRESS PO DRAWER R, JANE LEW, WV 26378

SURFACE OWNER BLONDA STICKEL, 79 PATTERSON

ADDRESS WALTER NUTTER, 21 MONROE, SALEM, WV

MINERAL RIGHTS OWNER SAME AS SURFACE

ADDRESS 20426

OIL AND GAS INSPECTOR FOR THIS WORK

MIKE UNDERWOOD ADDRESS RT 2 BOX 114, SALEM, WV

PERMIT ISSUED JUNE 1, 87 26426

DRILLING COMMENCED 09-04-87

DRILLING COMPLETED 09-12-87

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
CN

GEOLOGICAL TARGET FORMATION ALEXANDER

Depth of completed well 5635 feet Rotary X / Cable Tools Depth 5500 feet

Water strata depth: Fresh 110 feet; Salt 1600 feet

Coal seam depths: NA

Is coal being mined in the area? NA

OPEN FLOW DATA

Producing formation ALEXANDER

Gas: Initial open flow 198 Mcf/d Oil: Initial open flow NA Bbl/d

Final open flow 1,068 Mcf/d Final open flow NA Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 1700 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation BENSON

Gas: Initial open flow 100 Mcf/d Oil: Initial open flow NA Bbl/d

Final open flow 1,068 Mcf/d Oil: Final open flow NA Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 1700 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

OCT 12 1987

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16			
Cond.			
13-10"			
XXXX 1 1/4	171	171	85 SKS
8 5/8	1734	1734	370 SKS
7			
5 1/2			
4 1/2	5635	5635	410 SKS
3			
2			
Liners used			

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

FRAC 2 STAGE HOLES	09-17-87	B.D.	I.S.I.P.
ALEXANDER	800	2400#	1900#
<u>5392 - 5590</u>	15	80,000	2000#
BENSON	880	80,000	1700#
<u>5090 - 5096</u>	18		

RECEIVED
SEP 30 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
FILL	RED	SOFT	0	20	Including indication of all fresh and salt water, coal, oil and gas
RED ROCK	RED	SOFT	20	662	WET @ 110' 1/2" STREAM H2O
SAND & SHALE	GREY	SOFT	662	2140	WET @ 1600' 1/4" STREAM H2O
BIG LIME	GREY	HARD	2140	2210	
BIG INJUN	GREY	HARD	2210	2300	GAS CK @ 2331' NO SHOW
GORDON	GREY	SOFT	2860	3010	
SPEECHLEY	BROWN	SOFT	3680	3810	
BALLTOWN	GREY	HARD	4000	4120	GAS CK @ 5026' NO SHOW
RILEY	GREY	SOFT	4810	4990	GAS CK @ 5150' 16/10 1 1/4" H2O
BENSON	BROWN	HARD	5080	5140	GAS CK @ 5496' 16/10 1 1/4" H2O
ALEXANDER	GREY	SOFT	5330	5460	
T.D.			<u>5717</u>		GAS CK @ T.D. 10/10 1 1/4" H2O

(Attach separate sheets as necessary)

STONEMALL GAS COMPANY
Well Operator _____
By: B. A. Hardesty
BENJAMIN A. HARDESTY, VICE PRESIDENT
Date: _____

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed graphical record of all formations, including ... of a well."



- 1) Date: May 6, 19 87
- 2) Operator's Well No. ROSS #1 (176-S)
- 3) API Well No. 47 017 State West Virginia County Wayne Permit 3548

RECEIVED
MAY 11 1987

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

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production Undergrnd storage Deep Shallow
Elevation: 1153 Watershed: Indian Fork
- 5) LOCATION: District: Greenbrier 4 County: Doddridge 017 Quadrangle: Big Isaac 252
- 6) WELL OPERATOR Stonewall Gas CODE: 470507 DESIGNATED AGENT Charles W. Canfield
Address: P.O. Drawer R Address: P.O. Drawer R
Jane Lew, WV 26378 Jane Lew, WV 26378
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mike Underwood 9) DRILLING CONTRACTOR:
Address Rt 2, Box 114 Name S.W. Jack Drilling
Salem, WV 26426 Address Buckhannon, WV 26201

10) PROPOSED WELL WORK: 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 true depths: Fresh, 140 feet; salt, 1576 feet.
- 14) Approximate coal seam depths: Unknown 1521 Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		New	Used	FOOTAGE INTERVALS		Left in well	CEMENT FILL-UP OR SACKS (Public feet)	PACKERS
	Size	Grade			Weight per ft.	For drilling			
Conductor	11 3/4		X		150	150		Rule 15.05	
Fresh water									
Coal									
Intermediate	8 5/8		X		1400	1400		Rule 15.05	
Production	4 1/2		X		5500	5500		Rule 15.01	
Tubing								OR 550 SKS.	
Liners									

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3548

Date June 1 19 87

Date

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 June 1, 1989

unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>AS 185</u>	Casing Fee: <u>3741</u>	WPCV Fee: <u>203</u>	Other: <u>SAE</u>
---	--	---------------------	-------------------------	----------------------	-------------------

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

Director, Division of Oil and Gas

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

