

Janie 7/19/88

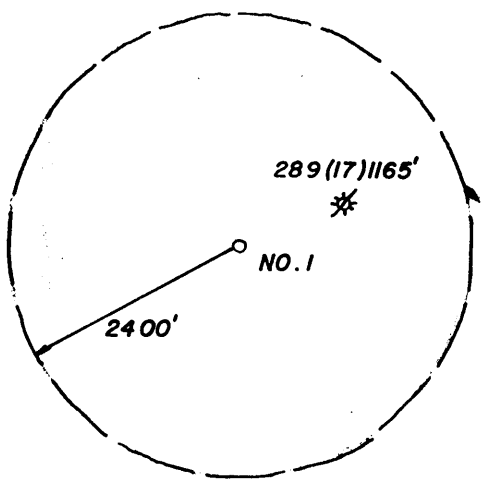
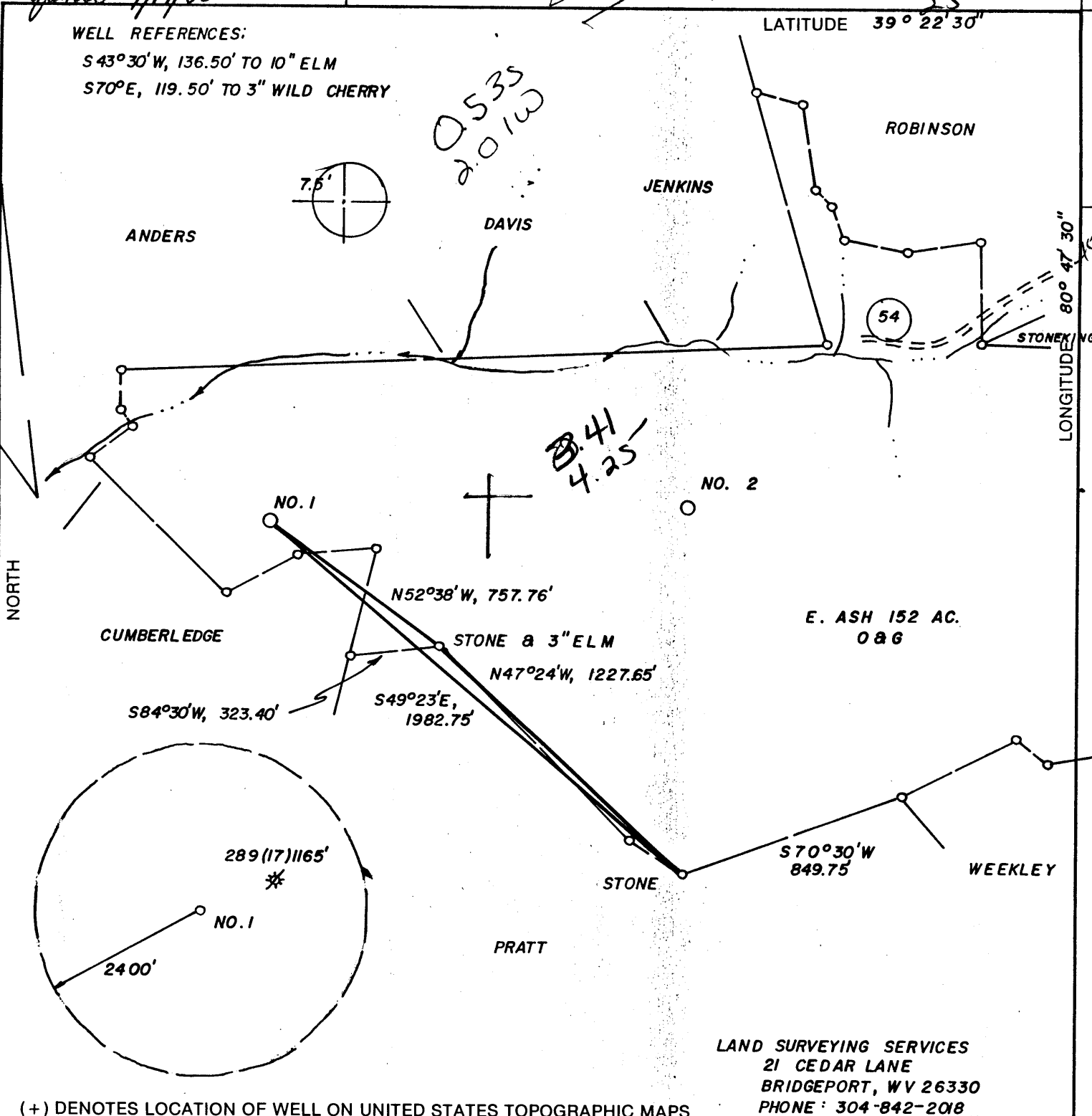
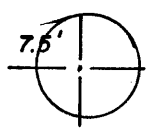
10,760'

LATITUDE 39° 22' 30"

WELL REFERENCES:

S 43° 30' W, 136.50' TO 10" ELM
S 70° E, 119.50' TO 3" WILD CHERRY

0535
2.01W

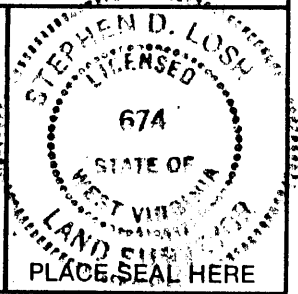


LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION ROAD INT. 7685' SE. OF LOC. AT ELEV. 834'

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) *Stephen D. Losh*
R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MAY 17, 19 88
OPERATOR'S WELL NO. ASH NO. 1
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1018' WATERSHED CAMP MISTAKE RUN
DISTRICT CENTERVILLE COUNTY TYLER
QUADRANGLE WEST UNION 7.5 671 133 6 +15' EC
SURFACE OWNER CHARLES F. CUMBERLEDGE ACREAGE 62.
OIL & GAS ROYALTY OWNER JOHN L. ASH LEASE ACREAGE 150.
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 BENSON ESTIMATED DEPTH 5300'
WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 497 JANE LEW, WV 26378-0080

AUG 5 - 1988

6-6 Wilbur

(092)

H.T. HALL 4-8673 FORM WW-6

COUNTY NAME
PERMIT

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Perm name: CUMBERLEDGE, CHARLES LEE Operator Well No.: ASH 1 380-S
1018 via Stonewall
LOCATION: Elevation: 4145100 Quadrangle: WEST UNION
District: CENTERVILLE County: TYLER
Latitude: 2825 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude: 10760 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: STONEWALL GAS CO.

P. O. DRAWER R
JANE LEW, WV

Agent: JESSE SHELL

Inspector: GLEN P. ROBINSON

Permit Issued: 08/03/88

Well work Commenced: 11-04-89

Well work Completed: 11-09-89

Verbal Plussings

Permission granted on: _____

Rotary Cable _____ Ris _____

Total Depth (feet) 5150

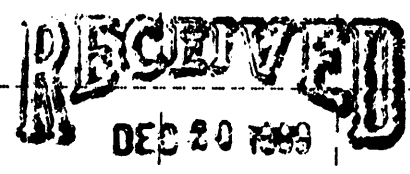
Fresh water depths (ft) 90

Salt water depths (ft) 839

Is coal being mined in area (Y/N)? N

Coal Depths (ft): N/A

Size	Casings & Tubing	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
11 3/4		132	132	70 SKS
8 /58		1293	1293	350 SKS
4 1/2		5092	5092	1670 SKS



DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4908
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 1905 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1500 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4494
Gas: Initial open flow * _____ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 1905 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1500 psig (surface pressure) after 168 Hours

* UNABLE TO DETERMINE DUE TO BIG INJUN FLOWING 133 MCF/D NATURAL

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: STONEWALL GAS CO.

By: Ray M. Greear Jr.
Date: NOVEMBER 29 89

DEC 29 1989

7431

FORMATION	COLOR	HARD/SOFT	TOP FT	BOTTOM FT	REMARKS
SAND & SHALE			0	35	1/2" STREAM @ 90'
SAND			35	55	
SAND & SHALE			55	180	1/2" H ₂ O @ 839
SAND			180	250	
SAND & SHALE			250	559	HOLE DAMP 460
SAND			559	590	
SAND & SHALE			590	654	GAS CK @ 1832' NO SHOW
SAND			654	680	GAS CK @ 1958' NO SHOW
SAND & SHALE			680	808	
SHALE			808	839	GAS CK @ 2020 10/10 2"
SAND & SHALE			839	885	H ₂ O
SAND			885	932	
RR			932	963	GAS CK @ 2082 12/10 2"
SAND			963	994	H ₂ O
RR & SHALE			994	1273	
SAND			1273	1300	GAS CK @ 2613 4/10 2"
SHALE & RR			1300	1350	H ₂ O
SAND & SHALE			1350	1420	
SAND			1420	1510	GAS CK @ 3576 30/10 1"
SAND & SHALE			1510	1770	W/H ₂ O
SAND			1770	1710	
LIME			1710	1815	GAS CK @ 4502 30/10 1"
SAND & SHALE			1815	1830	W/H ₂ O
B-LIME			1830	1840	
INJUN			1840	1930	GAS CK @ 4592 32/10 1"
SAND & SHALE			1930	2060	W/H ₂ O
SAND			2060	2235	
SAND & SHALE			2235	2265	GAS CK @ 5150' 22/10
SAND			2265	2330	2" W/H ₂ O
SAND & SHALE			2330	2370	
SAND			2370	2415	
SHALE (GREY)			2415	2475	
GORDON			2475	2580	
SHALE & SAND			2580	2670	
RILEY			2670	4510	
SAND & SHALE			4510	4550	
SAND			4550	4690	
SHALE & SAND			4690	4730	
BENSON			4730	4900	
SHALE & SAND			4900	4930	
TD			4930	5150	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

004	1400	0802	000	45,000	500	18	4494-4500	RILEY
009	1600	01810	000	70,000	700	18	4908-4912	BENSON
ISIP	BD	SAND	BBL	HOLE	PERFS	ZONES		

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

- 1) Well Operator: STONEWALL GAS COMPANY 47950, 1, 670
- 2) Operator's Well Number: ASH #1 380-S 3) Elevation: 1145'
- 4) Well type: (a) Oil / or Gas X/
- (b) If Gas: Production X/ Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 5100' feet
- 7) Approximate fresh water strata depths: 92' 1120'
- 8) Approximate salt water depths: 1270'
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Dull & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<u>OK RAL</u> Conductor	11 3/4	ERW	42#	150'	150' <u>CS</u>	38CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 3/4	ERW	23#	1300'	1300' <u>CS</u>	38CSR 18-11.3
Production	4 1/2	ERW	10.5#	5050'	5050'	38CSR 18-11.1
Tubing						
Liners						

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PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

7431 4509 21

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond 50 Blanket Agent

(Type)

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DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: July 12, 1988
Operator's well number
Ash #1 380-S
API Well No: 47 - 095 - 1254
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 (a) Name Charles Lee Cumberledge
 Address 2901 Puget Street
Baltimore, MD 21230
 (b) Name _____
 Address _____
 (c) Name _____
 Address _____
- 6) Inspector Robert Lowther
 Address General Delivery
Middlebourne, WV 26149
 Telephone (304)- 758-4764

- 5) (a) Coal Operator:
 Name N/A
 Address _____
 (b) Coal Owner(s) with Declaration
 Name Charles Lee Cumberledge
 Address 2901 Puget Street
Baltimore, MD 21230
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name N/A
 Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

_____ Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
 _____ Certified Mail (Postmarked postal receipt attached)
 _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator STONEWALL GAS COMPANY
 By: Benj A. Bennett
 Its: VICE PRESIDENT
 Address P.O. DRAWER R
JANE LEW, WV 26378-0080
 Telephone 304-884-7881

Subscribed and sworn before me this 12TH day of JULY, 1988

Richard K. Elvick
 My commission expires OCTOBER 14, 1993

Notary Public
 Commission NER