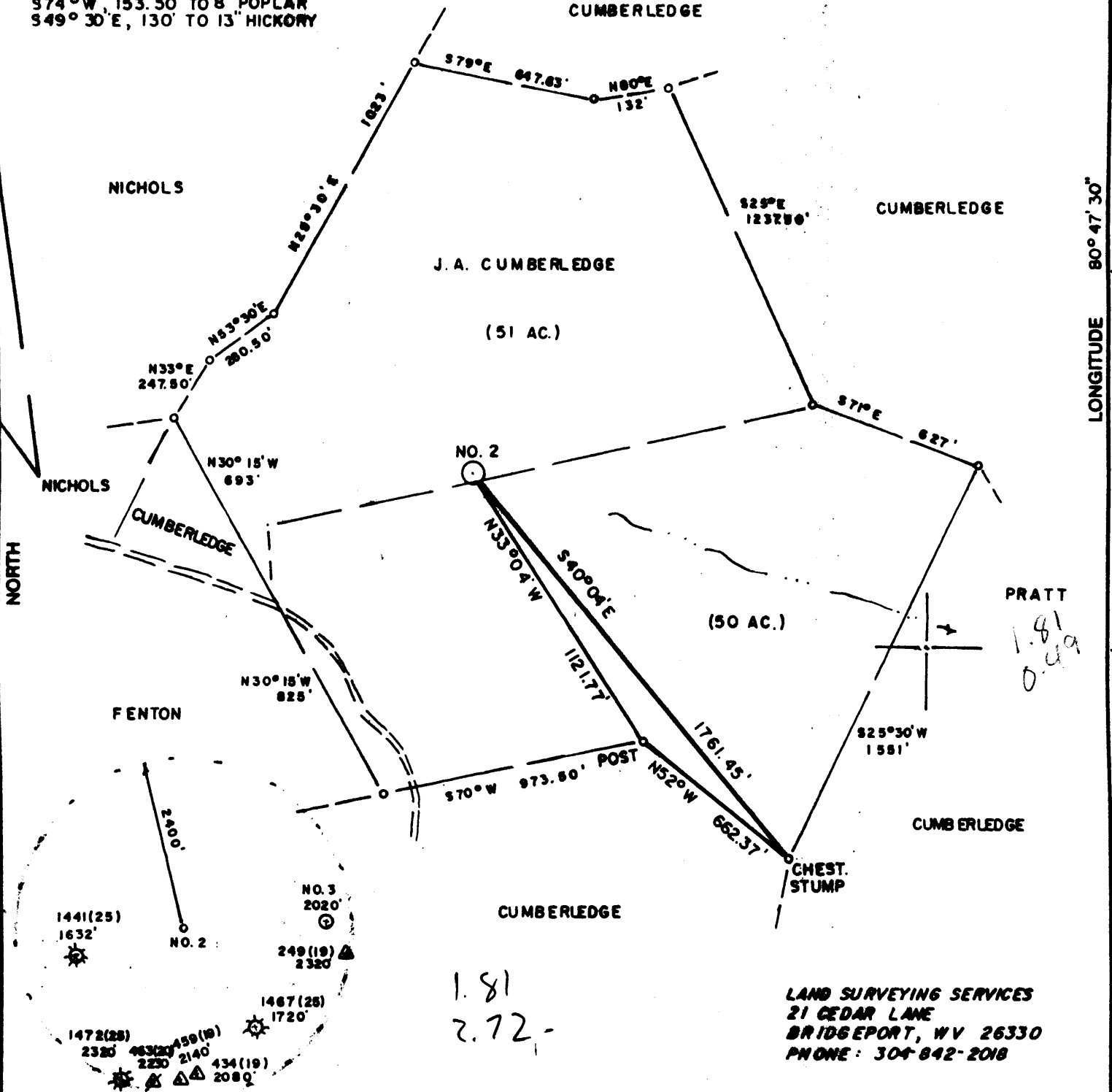


WELL REFERENCES:
S74°W, 153.50' TO 8" POPLAR
S49°30'E, 130' TO 13" HICKORY

LATITUDE 39°25'00"



LONGITUDE 80°47'30"

0556

PRATT
1.81
0.49

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 TOP OF KNOB 1150' W. OF LOCATION ELEV. - 1267'

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

STEPHEN D. LOSH PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MARCH 14, 1994
 OPERATOR'S WELL NO. JACOB NO. 2
 API WELL NO. 47-095-1618
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 992' WATERSHED PRATT RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5 min. W.A. ce

SURFACE OWNER JACOB A. CUMBERLEDGE ACREAGE 51
 OIL & GAS ROYALTY OWNER JACOB A. CUMBERLEDGE LEASE ACREAGE 226

PROPOSED WORK: DRILL 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 5200'
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT JESSE SHELL
 ADDRESS P.O. DRAWER R 847 ADDRESS P.O. DRAWER R
 JANE LEW, WV 26378 JANE LEW, WV 26378

COUNTY NAME PERMIT

6-6-92

OFFICE OF OIL AND GAS

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

AUG 23 1994

WV Division of Environmental Protection Well Operator's Report of Well Work
Farm Name: CUMBERLEDGE, JACOB A Operator Well No.: 2 673-S

LOCATION: Elevation: 992.00 Quadrangle: SHIRLEY
District: MCELROY County: TYLER
Latitude: 9550 Feet South of 39 Deg. 25Min. Sec.
Longitude 2670 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: STONEWALL GAS COMPANY
909 E. MAIN ST., P.O. BOX 1575
RICHMOND, VA 23213-0000

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 05/13/94
Well work Commenced: 06/07/94
Well work Completed: 06/22/94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5125
Fresh water depths (ft) 75

Salt water depths (ft) _____
1440

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NONE REPORTED

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	131	131	65 SKS
8 5/8	1060	1060	200 SKS
4 1/2	5053	5053	825 SKS

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4981
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1975 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1325 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4510
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow COMMINGLED MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 1325 psig (surface pressure) after 168 Hours

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 COMPANY

By: [Signature] RAY M. FREAR, J
Date: JULY 15, 1994 PETROLEUM ENGINEER

1000 1004

2	STAGES	WATER	FRAC	07-01-94	DATE
ZONES	PERFS	HOLES	BBL	BP	ISIP
BENSON	4981-4985	16	800	2129	1700
RILEY	4510-4530	16	700	2539	1737

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
SHALE	BROWN	SOFT	0	50	GAS CK @ 1805 NO SHOW
SAND	BROWN	SOFT	50	85	1930 NO SHOW
RR & SHALE	GRAY	HARD	85	150	1961 NO SHOW
SHALE & SAND	GRAY	HARD	150	316	1993 NO SHOW
SHALE, RR, SAND	GRAY	SOFT	316	808	2022 NO SHOW
SAND & SHALE	BROWN	SOFT	808	876	2054 17/10 2" W/W
RR & SHALE	BROWN	HARD	876	886	2085 12/10 2" W/W
SAND	GRAY	HARD	886	910	2116 8/10 2" W/W
SAND & SHALE	GRAY	HARD	910	1468	2643 4/10 2" W/W
BLACK SHALE	BLACK	HARD	1468	1480	2732 12/10 2" W/W
SAND & SHALE	GRAY	SOFT	1480	1604	4565 10/10 2" W/W
WHITE SAND	WHITE	SOFT	1604	1727	5000 10/10 2" W/W
SAND & SHALE	GRAY	SOFT	1727	1786	TD 8/10 2" W/W
RR & SHALE	GRAY	HARD	1786	1840	
L. LIME	BROWN	HARD	1840	1857	
SHALE	GRAY	SOFT	1857	1874	
B. LIME	BROWN	SOFT	1874	1964	
SHALE	BROWN	HARD	1964	1975	
BIG INJUN	GRAY	SOFT	1975	2095	
SHALE	GRAY	SOFT	2095	2178	
SAND & SHALE	BROWN	HARD	2178	2650	
SAND	GRAY	SOFT	2650	2690	
SAND & SHALE	GRAY	SOFT	2690	4928	
BENSON	GRAY	HARD	4928	4934	
SAND & SHALE	GRAY	SOFT	4934	5125	
ND			5125		

19054

095-1618

APR 25 94

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Permitting
Office of Oil & Gas

WELL WORK PERMIT APPLICATION

Expires 05/13/96
847 47550 (S) 607

- 1) Well Operator: Stonewall Gas Company
- 2) Operator's Well Number: Jacob #2 (673-S) 3) Elevation: 992'
- Well type: (a) Oil / or Gas X/
- (b) If Gas: Production X/ Underground Storage /
- Deep / Shallow X/
- Proposed Target Formation(s): Benson 435
- Proposed Total Depth: 5100' feet
- Approximate fresh water strata depths: 30', 100', 210', 420'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Drill and 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.)
Conductor	11 3/4"		27#	130'	130'	CSR 38 18-11.1
Fresh Water						<i>to K. m. l. l.</i>
Coal						
Intermediate	8 5/8"		20#	1040'	1040'	CSR 38 18-11.2.2
Production	4 1/2"	J-55	10.5#	5040'	5040'	CSR 38 18-11.3
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

5217/14

- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
- Plat WW-9 WW-28 Bond _____ Agent

19084

1) Date: APRIL 19, 1994
2) Operator's well number
JACOB #2 (673-S)
3) API Well No: 47 - 095 - 1618
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name JACOB A. CUMBERLEDGE
Address HCR 74 BOX 106
ALMA, WV 26320
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
- Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
Name SAME AS SURFACE
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name N/A
Address _____
- 6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304)- 782-1043

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

X 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)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

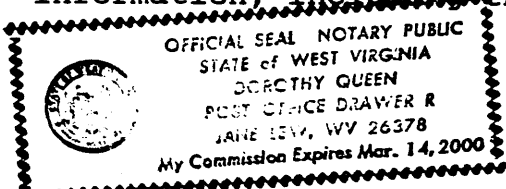
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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: B.A. Hardesty B.A. HARDESTY
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 19TH day of APRIL, 19 94



Dorothy Queen
My commission expires MARCH 14, 2000 Notary Public