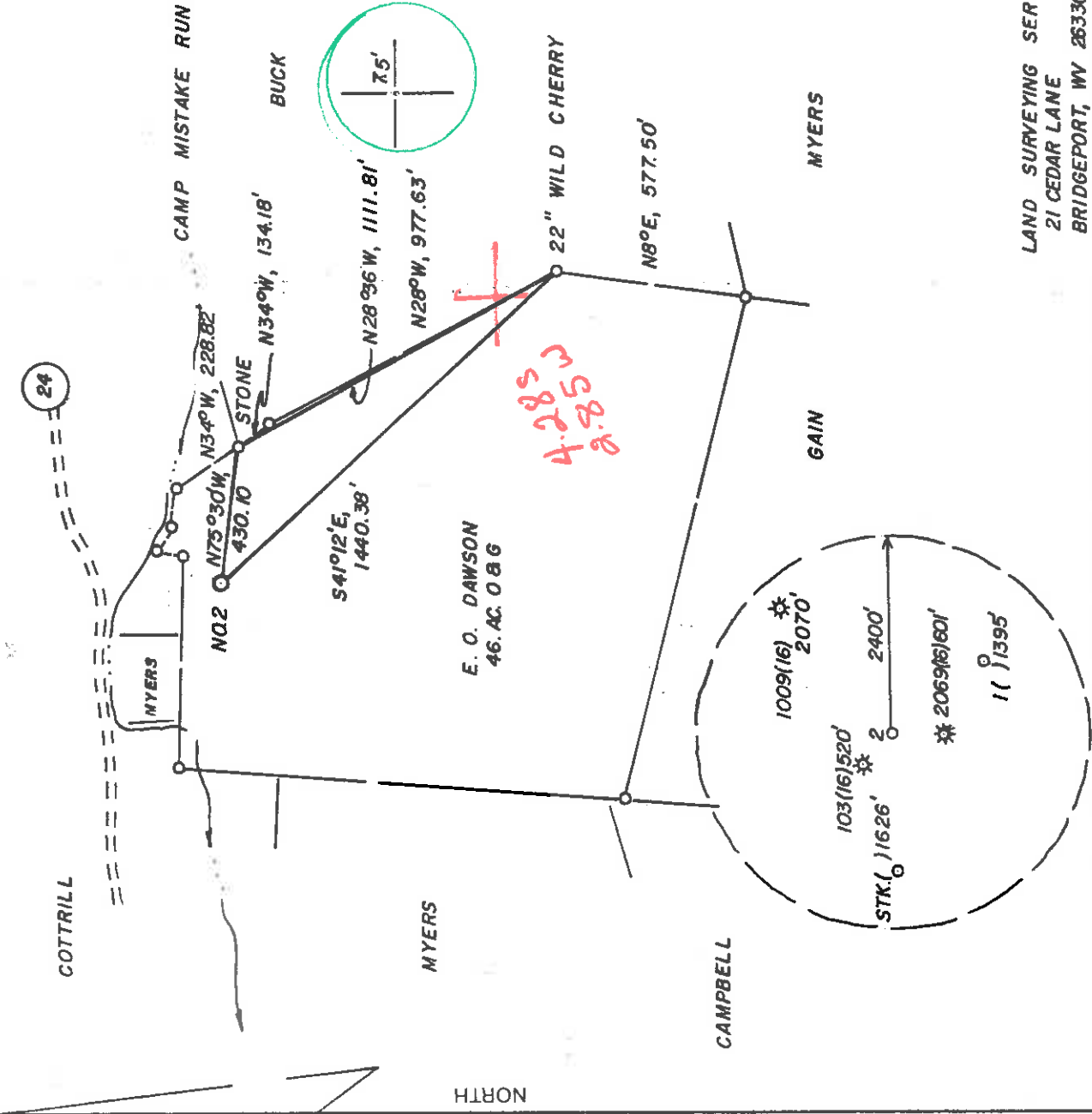


988 9/17/87

LATITUDE 39° 22' 30"

LONGITUDE 80° 47' 30"

WELL REFERENCES:
S65°E, 123' TO 8" ELM
N71° 45' W, 134' TO 3" WILD CHERRY MYERS

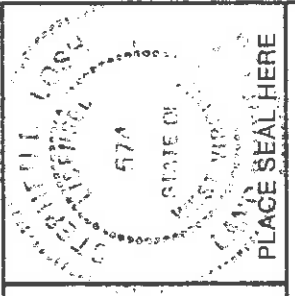


LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

(+) 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 1610'S
OF LOC. AT ELEV. 1282'

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 SEPT. 10, 19 87
OPERATOR'S WELL NO. DAWSON 2
API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 863' WATER SHED CAMP MISTAKE RUN
DISTRICT WEST UNION 8 COUNTY DODDRIDGE
QUADRANGLE WEST UNION 7.5 671 153 E66 West 20109 ACREAGE 46.
SURFACE OWNER RICHARD J. NICHOLS
OIL & GAS ROYALTY OWNER E. O. DAWSON, ET. AL. LEASE ACREAGE 46

LEASE NO. _____
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 5150'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P.O. DRAWER R ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 647 JANE LEW, WV 26378-0080

PERMIT
SEP 21 1987

RECEIVED
OCT 28 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

WELL OPERATOR'S REPORT

Date OCTOBER 21, 87

Operator's

Well No. DAWSON #2 245-S

Farm DAWSON

API No. 47-017 - 3593

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: 863 Watershed CAMP MISTAKE RUN

District: WEST UNIO County DODDRIDGE Quadrangle WEST UNION 7.5'

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 RICHARD J. NICHOLS

ADDRESS 856 CHESTER RD, CHARLESTON, WV

MINERAL RIGHTS OWNER SAME AS SURFACE 25302

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK MIKE

UNDERWOOD ADDRESS RT 2, BOX 135, SALEM,

PERMIT ISSUED SEPT 18, 87 WV 26426

DRILLING COMMENCED OCT 1, 87

DRILLING COMPLETED OCT 6, 87

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

Casing Tubing Size	Used In Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
Cond. 11 3/4			
13-10"	213	213	100 SKS
9 5/8			
8 5/8	1337	1337	300 SKS
7			
5 1/2			
4 1/2	4891	4891	640 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 4765 feet

Depth of completed well 4891 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 189 feet; Salt 1285 feet

Coal seam depths: NO Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4765 feet

Gas: Initial open flow 103 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 750 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 1300 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation BALLTOWN Pay zone depth 3740 feet

Gas: Initial open flow 103 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 750 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 1300 psig (surface measurement) after N/A hours shut in

NOV 2 1987

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
FRAC TWO STAGES 10/12/87

PERFS	HOLES	BBL	SAND	B.D.	I.S.I.P.
<u>BENSON</u> 4763 -	20	980	80,000#	2170#	1650#
4770					
<u>BALLTOWN</u> 3730-	16	537	45,000#	2300#	2200#
3767					

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including Indication of all fr and salt water, coal, oil and
FILL	RED	SOFT	0	10	
SHALE & RED ROCK	RED	SOFT	10	281	HOLE DAMP @ 189'
SAND & SHALE	GREY	SOFT	281	1740	1/2" STREAM 1285' H2O
BIG LIME	GREY	HARD	1740	1830	
BIG INJUN	GREY	HARD	1833	1930	GAS CK @ 1949 NO SHOW
WEIR	GREY	SOFT	2090	2190	
BEREA	GREY	SOFT	2290	2300	
GORDON	GREY	SOFT	2490	2540	GAS CK @ 2581 30/10 1" H2O
BALLTOWN	GREY	SOFT	3540	3810	GAS CK @ 4417 20/10 1" H2O
RILEY	GREY	HARD	4340	4420	GAS CK @ 4824 100/10 1" H2O
<u>BENSON</u>	GREY	HARD	4750	4830	
T.D.				<u>4950'</u>	GAS CK @ T.D. 96/10 1" H2O

RECEIVED
OCT 28 1987
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY
Well Operator

By: Ben A. Hardesty
BENJAMIN A. HARDESTY, VICE PRESIDENT

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
of a well."

3/8

FORM WV-2 (B) FILE COPY
 (Obverse)
 7/83
RECEIVED
 SEP 16 1987



- 1) Date: September 14, 19 87
 2) Operator's Well No. Dawson #2 245-S
 3) API Well No. 47 017 3593
 State County Permit

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 Underground storage Deep Mistake Run Shallow
 5) LOCATION: Elevation: 863' Watershed: Camp Mistake Run
 District: West Union 8 County: Doddridge 017 Quadrangle: West Union 1670
 6) WELL OPERATOR Stonewall Gas CODE: 47850 7) DESIGNATED AGENT Charles W. Canfield
 P.O. Drawer R Address P.O. Drawer R
 Jane Lew, WV 26378
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood 782-1043
 Address Rt 2, Box 135
 Salem, WV 26426

- 9) DRILLING CONTRACTOR:
 Name S.W. Jack Drilling Co.
 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, Benson
 12) Estimated depth of completed well, 5,150' feet
 13) Approximate trata depths: Fresh, 163', 50' feet; salt, 881, 1263 feet.
 14) Approximate coal seam depths: 508 Is coal being mined in the area? Yes No
 15) CASING AND TUBING PROGRAM From Dodd 1009, 2920, 3256

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor	11 3/4			200	200	Rule 15-05	386 SR 18-11.3
Fresh water							
Coal	8 5/8			1163'	1163'	Rule 15-05	SR 18-11.3
Intermediate	4 1/2			5150'	5150'	Rule 15-01	SR 18-11.1
Production							
Tubing							
Liners							

OFFICE USE ONLY
 DRILLING PERMIT
 Permit number 47-017-3593 Date September 18, 1987

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 September 18, 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: <input checked="" type="checkbox"/>	Fee: <input checked="" type="checkbox"/>	APP: <input checked="" type="checkbox"/>	SEE: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
			231	1020		

Shaul S. Johnston by Margaret J. Haas
 Director, Division 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

