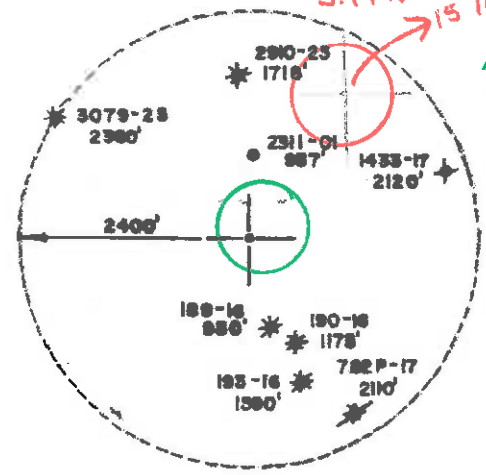
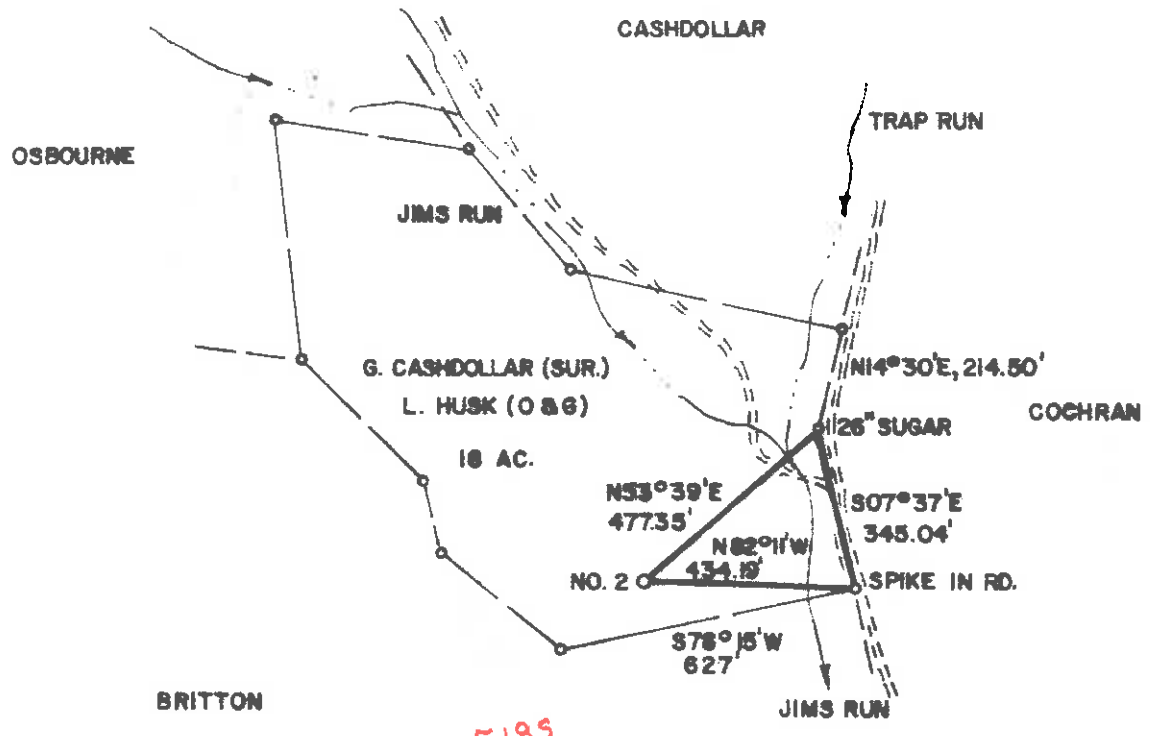


NORTH



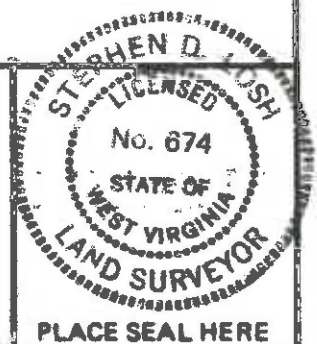
5.185
3.97W
→ 15' loc.
2.30S
1.72W

2.30
288
5.18
1.72
2.25
3.97

PREPARED BY:
LAND SURVEYING SERVICES
RT. 2, BOX 215E
JANE LEW, WV 26378
PHONE: 304-745-4426

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION RD. INTER. 450' N.E. OF LOCATION ELEV. - 900'

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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE MAY 31, 19 83
OPERATOR'S WELL NO. HUSK NO. 2
API WELL NO. 47-017-3242
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 1025' WATER SHED JIMS RUN
DISTRICT SOUTHWEST COUNTY DOODRIDGE
QUADRANGLE OXFORD 7.5 min. Holbrook 15' NE
SURFACE OWNER L. E. CASHDOLLAR, JR. ACREAGE 18
OIL & GAS ROYALTY OWNER C. H. HARRIS, JR. et al. LEASE ACREAGE 18
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 ALEXANDER ESTIMATED DEPTH 5100'
WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD
ADDRESS P.O. DRAWER F ADDRESS P.O. DRAWER F
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

AUG 29 1983

IV-35
(Rev 8-81)

RECEIVED

NOV 4 - 1983



OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date November 2, 1983
Operator's
Well No. #2 (124-S)
Farm Howard Husk
API No 47 - 017 - 3242

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1029 Watershed Jims Run
District: Southwest County Doddridge Quadrangle Oxford

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 Lee Cashdollar, Jr
ADDRESS Rt.1, Box 186, West Union, WV
MINERAL RIGHTS OWNER Clarence W. Mutschelknaus
ADDRESS P.O. Box 351, Salem, WV 26426
OIL AND GAS INSPECTOR FOR THIS WORK Steve Casey ADDRESS Rt. 2, Box 232-D
Jane Lew, WV
PERMIT ISSUED August 22, 83
DRILLING COMMENCED September 12, 83
DRILLING COMPLETED September 17, 83
IF APPLICABLE: PLUGGING OF DRY HOLE OR
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	41' 11"		N/A
9 5/8			
8 5/8	1593'	1593'	385 sks
7			
5 1/2			
4 1/2	5411'	5411'	634 sks
3			
2 tubing		5001	
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5500 feet
Depth of completed well 5535 feet Rotary X / Cable Tools
Water strata depth: Fresh 555 feet; Salt 1480 feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5031 feet
Gas: Initial open flow 80 Mcf/d Oil: Initial open flow N/A Bbl/d
Final open flow 822 Mcf/d Final open flow N/A 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 Balltown Pay zone depth 3554 feet
Gas: Initial open flow 40 Mcf/d Oil: Initial open flow Show Bbl/d
Final open flow 822 Mcf/d Oil: Final open flow Show 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)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Frac. 09-30-83 4 State,

	PERFS.		HOLES	BRKD	BLS	SAND	ISIP
Alexander	5023-31 5006-23	4978	9	2700	700	70,000	1150
Benson	4717-15 4635	4310-13	7	2400	700	60,000	1050
Balltown	3586-88 3554-56	3530-32	6	2900	500	50,000	1050
Speechley	3273-74 3228-30	3190-94	13	3300	800	80,000	1000
		3156-58					

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay & Fill	br	s	0	10	
Sand & Shale	w	h	10	50	
Shale	gr	s	50	325	
Sand & Shale	rd	s	325	500	
Red rock & Shale	rd	s	500	540	
Sand & Shale	g	h	540	560	1/2" stream H ₂ O 555'
Shale & Red Rock	rd	s	560	640	
Shale	g	h	640	980	
Sand & Shale	br	m	980	1100	
Red Rock & Shale	r	h	1100	1410	
Shale	g	h	1410	1635	
Red Rock & Shale	r	h	1635	1810	
Shale	g	h	1810	2090	
Lime	br	m	2090	2110	Gas check 2093 12/10 1" H ₂ O
Shale	g	m	2110	2140	
Big Lime	br	h	2140	2195	Gas check 2467 6/10 1" H ₂ O
Sand	w	h	2195	3150	Gas check 2907 4/10 1" H ₂ O
Shale	g	m	3150	3885	Gas check 3033 8/10 1" H ₂ O
Sand & Shale	gr	s	3885	4330	Gas check 3284 8/10 1" H ₂ O
Shale	gr	s	4380	4505	Gas check 3502 4/10 1" H ₂ O
Benson	br	m	4505	4525	Gas check 4503 16/10 1" H ₂ O
Shale	gr	s	4525	5000	Gas check 4690 110/10 1" H ₂ O
Alexander	gr	s	5000	5031	Gas check 5096 20/10 1" H ₂ O
Shale	gr	s	5031	5335	
Shale	gr	s	5335	TD 5535	Gas check 5471 40/10 1" H ₂ O

(Attach separate sheets as necessary)

STONEWALL GAS COMPANY

Well Operator

By: Benjamin A. Hardesty
Benjamin A. Hardesty, Vice President

Date: November 2, 1983

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 coal, encountered in the drilling of a well."



1) Date: June 2, 19 83
 2) Operator's Well No. Husk #2
 3) API Well No. 47 - 017 - 3242
 State _____ County _____ Permit _____

DRILLING CONTRACTOR:
S. W. Jack Drilling

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil X / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X)
- 5) LOCATION: Elevation: 1029' Watershed: Jims Run
 District: Southwest County: Doddridge Quadrangle: Oxford 7.5
- 6) WELL OPERATOR Stonewall Gas Company 11) DESIGNATED AGENT Charles W. Canfield
 Address P. O. Drawer F Address P. O. Drawer F
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Clarence W. Mutschelknaus, et al 12) COAL OPERATOR N/A
 Address P. O. Box 351 Address _____
Salem, WV 26426
- 8) SURFACE OWNER Lee Cashdollar, Jr. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Rt. 1, Box 186 Name Same as surface
West Union, WV Address _____
 Acreage 18 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address Unknown
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Steve Casey (884-7470) Address _____
 Address Rt. 2, Box 232-D Address _____
Jane Lew, WV 26376
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Alexander
- 17) Estimated depth of completed well, 5300 feet
- 18) Approximate water strata depths: Fresh, 1610/29 feet; salt, 1565 feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes X / No _____

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.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42		X	30	30	0	Kinds
Fresh water	8 5/8	ERW	23	X		1650	1650	To surface	
Coal	8 5/8	ERW	23	X		1650	1650	To surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5300	5300	As Required	Depths set
Tubing									
Liners									Perforations: Top Bottom

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: Christy A. Cook Signed: Benjamin A. Huntley
 My Commission Expires 28 October 1990 Its: Vice Pres.

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3242 Date Aug. 22, 1983

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 April 22, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>	

Administrator, Office of Oil and Gas

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