

Janice 11/29/88

LATITUDE 39° 22' 30" LONGITUDE 80° 45' 00"

ZIEGENFUSS

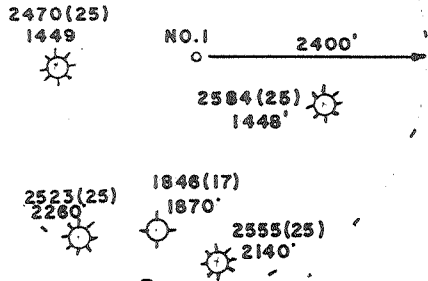
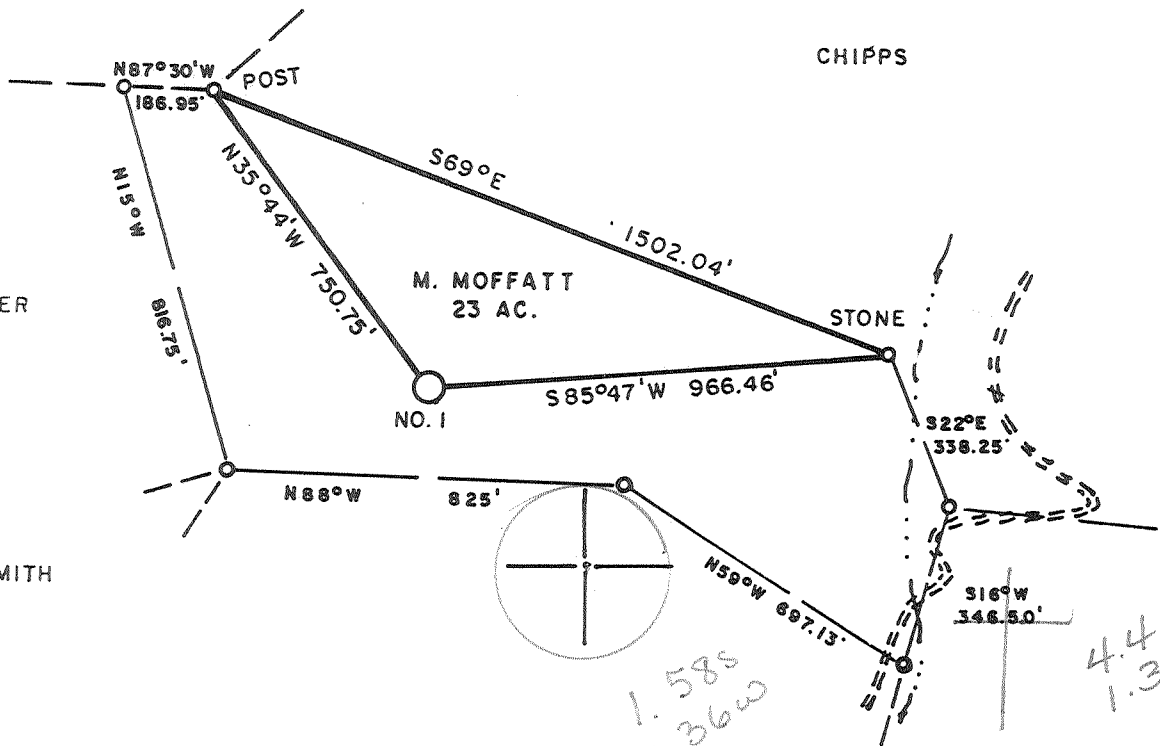
CHIPPS

RYMER

SMITH

SHERMAN

SMITH



WELL REFERENCES:-

N62° 30'W, 148' TO 14" R. MAPLE  
S24° 30'E, 133' TO 10" R. MAPLE

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

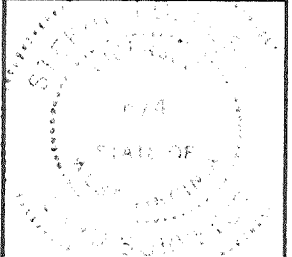
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 500' S.W. OF LOCATION ELEV. - 1236'

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. 674  
STEPHEN D. LOSH



PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE MARCH 09, 19 88  
 OPERATOR'S WELL NO. MOFFATT NO. 1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1153' WATERSHED WOLFPEN RUN  
 DISTRICT WEST UNION 4 COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 7.5 min. 671 1336 ±15' EC  
 SURFACE OWNER WINFRED SMITH ACREAGE 23.07  
 OIL & GAS ROYALTY OWNER M. MOFFATT LEASE ACREAGE 23  
 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 5400'  
 WELL OPERATOR STONEWALL GAS COMPANY DESIGNATED AGENT CHARLES CANFIELD  
 ADDRESS P.O. DRAWER R ADDRESS P.O. DRAWER R  
JANE LEW, WV 26378 JANE LEW, WV 26378

DEC 2 1988

6-6 Wilbur (092)

FORM WW-6

COUNTY NAME PERMIT

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Division of L

MAY 03 90

WR-35

Permitting  
Oil and Gas Section

State of West Virginia  
Division of Oil and Gas

API # 47-017-3683

Well Operator's Report of Well Work

Name: Moffatt #1

Operator Well No. DGH #56

LOCATION: Elevation: 1153'      Quadrangle: West Union  
District: West Union      County: Doddridge  
Latitude: 8430 Feet South of 39 Deg. 22 Min. 30 Sec.  
Longitude: 7280 Feet West of 80 Deg. 45 Min. 00 Sec.

Company: D.G. Haney, Inc.  
P.O. Box 3810  
Charleston, WV 25338  
Agent: D.G. Haney  
Inspector: Mike Underwood  
Permit Issued: 12-04-88  
Well work Commenced: 3-26-90  
Well work Completed: 4-04-90  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5246'  
Fresh water depths (ft) 375, 501'  
  
Salt water depths (ft) 896, 1417'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill up Cu.Ft.
Size			
11 3/4"	157.35'	157.35	113 CF
8 5/8"	1658.70'	1658.70	561 CF
4 1/2"	--	5205.25	544 CF

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 290-294, 345-348'  
OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 2124-2134'  
Gas: Initial open flow 462 MCF/D Oil: Initial open flow -- Bbl/d  
Final open flow 215 MCF/D Final open flow -- Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 470 psig (surface pressure) after 96 Hours  
Warren, Speechley, (See \_\_\_\_\_)  
Second producing formation Riley, Benson Pay zone depth (ft) Back  
Gas: Initial open flow Show MCF/D Oil: Initial open flow -- Bbl/d  
Final open flow \_\_\_\_\_ MCF/D Final open flow -- Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1225 psig (surface pressure) after 96 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: D.G. Haney, Inc.  
BY: David Haney Vice President  
DATE: 4-18-90

MAY 11 1990

STIMULATION SUMMARY

1st Stage-Riley, Benson  
 4641-5105' (20 holes)  
 75 Quality foam frac w/ 65,000  
 lbs 20/40 sand. BKDN 3220 psi,  
 ATP 3325 psi, ISIP 2850 psi,  
 AIR 20 BPM, TOTALS:  
 TWTR-384 bbls, N2-1,134,636 Scf,  
 1000 gal 15% HCl

2nd Stage-Warren Speechley  
 3473-3611' (15 holes)  
 75 quality foam frac w/ 30,000  
 lbs 20/40 sand. BKDN 3550 psi,  
 ATP 3050 psi, ISIP 2450 psi,  
 AIR 20 BPM, TOTALS:  
 TWTR-178 bbls, N2-459,549 Scf,  
 500 gal 15% HCl

Formation depths, 0-1996', taken from driller's log book;  
 depths, 1996-TD, taken from gamma ray log.

KB-GL	0-10'	
Sdy Sh & Clay	10-15'	
Red Rock	15-22'	
Sand	22-62'	
Red Rock & Sh	62-71'	
Sand	71-92'	
RR, Sh, & Sd	92-96'	
Sand	96-119'	
Sandy Shale	119-175'	
Red Rock & Sh	175-181'	
Sand & Shale	181-201'	
Red Rock & Sh	201-290'	
Coal	290-294'	
Sand & Shale	294-345'	
Coal	345-348'	
Sand & Shale	348-370'	Damp @
Sand	370-402'	375'
Sand & Shale	402-445'	
Red Rock & Sh	445-489'	
Sand	489-506'	Damp @
Sand & Shale	506-880'	501'
Sand	880-924'	Damp @
Sand & Shale	924-1161'	896'
Shale	1161-1200'	
Sand	1200-1329'	1/4" Wtr
Sand & Shale	1329-1585'	@ 1417'

Sand	1585-1664'	
Sand & Shale	1664-1996'	Gas checks
Little Lime	1996-2010'	taken @:
Shale & Sand	2010-2042'	
Big Lime	2042-2115'	
Big Injun	2115-2218'	2130'-
Shale	2218-2372'	oil odor
Weir	2372-2463'	2193'-
Shale	2463-2572'	462 Mcf/
Berea	2572-2587'	
Shale	2587-2776'	2563'-
Gordon Stray	2776-2829'	353 Mcf/
Sh & Siltstone	2829-3444'	2720'-
Warren	3444-3502'	353 Mcf/
Siltstone & Sh	3502-3558'	2904'-
Speechley	3558-3614'	337 Mcf/
Sh & Siltstone	3614-3824'	3117'-
Balltown Int.	3824-4044'	337 Mcf/
Sh & Siltstone	4044-4613'	3615'-
Riley	4613-4687'	298 Mcf/
Sh & Siltstone	4687-5091'	4909'-
Benson	5091-5112'	239 Mcf/
Sh & Siltstone	5112-TD	4999'-
LTD-	5247'	239 Mcf/
DTD-	5246'	TD-
		215 Mcf/

Well logged by Young Wireline

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 Division of Energy  
 MAY 03 90  
 Permitting  
 Oil and Gas Section

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 Division of Energy  
 MAY 03

Oil &

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

- 1) Well Operator: STONEWALL GAS COMPANY *47850, 8, 670*
- 2) Operator's Well Number: MOFFATT #1 (369-S) 3) Elevation: 1153
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): BENSON
- 6) Proposed Total Depth: 5300 feet
- 7) Approximate fresh water strata depths: 65', 200', 341'
- 8) Approximate salt water depths: 1260', 1156', 1628
- 9) Approximate coal seam depths: N/A *781' - 786'*
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: *Drill & 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	ERW	42#	150	150	38CSR18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8	ERW	23#	1400'	1400'	38CSR18-11.2, 2
Production	4 1/2	ERW	10.5#	5250'	5250'	38CSR18-11.1
Tubing						
Liners						

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NOV 18 1988

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: *1700* Well Work Permit *39* Reclamation Fund *100* WPCP  
Plat *100* WW-9 *100* WW-2B *100* Bond *50 Blanket* Agent *100*  
(Type)

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NOV 18 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: JULY 15, 1988  
2) Operator's well number  
MOFFATT #1 369-S  
3) API Well No: 47 - 017 - 3683  
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 Winfred Smith  
Address Rt 2, Box 105  
West Union, WV 26456  
(b) Name James M. Nicholson  
Address Rt 2, Box 105  
West Union, WV 26456  
(c) Name Lewis H. Nicholson  
Address c/o Winfred Smith  
Leona M. Prunty  
c/o Winfred Smith  
6) Inspector Mike Underwood  
Address Rt 2, Box 135  
Salem, WV 26426  
Telephone (304)-782-1043

5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Same as surface and  
Address J. Edward Moffatt, et al  
4068 Pardie Road  
Name Stow, Ohio 44224  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
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: *Henry A. Brown*  
Its: PRESIDENT  
Address P.O. DRAWER R  
JANE LEW, WV 26378  
Telephone 304-884-7881

Subscribed and sworn before me this 5TH day of AUGUST, 1988

*[Signature]* Notary Public  
My commission expires January 16, 1991