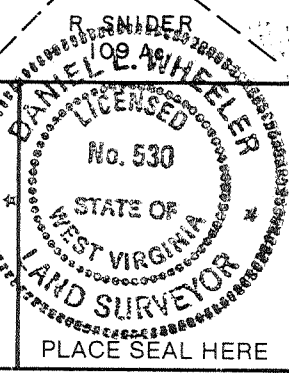


D. L. WHEELER & ASSOCIATES, INC.
 RT. 1 BOX 346
 CLARKSBURG, WV. 26301
 304-623-5215



(+) 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 WELL API # 3617
ELEV. 1164'

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) Daniel L. Wheeler
 R.P.E. _____ I.L.S. 530
DANIEL L. WHEELER

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



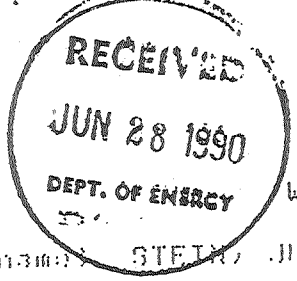
DATE MAY 25, 19 90
 OPERATOR'S WELL NO. STINESPRING NO. 4
 API WELL NO. _____ REVISED
47-017-3820
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1041' WATERSHED SOUTH FORK HUGHES RIVER
 DISTRICT SOUTH WEST 7 COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' Holbrook 15' NC
 SURFACE OWNER JUDITH STEIN ACREAGE 89.68
 OIL & GAS ROYALTY OWNER W. L. STINESPRING, ET. UX. LEASE ACREAGE 131
 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 ALEXANDER ESTIMATED DEPTH 5400'
 WELL OPERATOR FLUHARTY ENTERPRISES, INC. DESIGNATED AGENT THOMAS J. FLUHARTY
 ADDRESS P. O. BOX 226 ADDRESS P. O. BOX 226
SALEM, WV. 26426 396 SALEM, WV. 26426

COUNTY NAME
 PERMIT

6-6 Straight Fork-Bluestone Creek (133)



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

Well Operator's Report of Well Work

Farm name: STEIN, JUDITH Operator Well No.: STINESPRING #4

LOCATION: Elevation: 1041.00 Quadrangle: OXIBRD
District: SOUTHWEST County: BODDRIDGE
Latitude: 850 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude: 5725 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: FLUHARTY, THOMAS J. OR RE
P. O. BOX 187
SALLM, WV 26426-0000

Agent: THOMAS J. FLUHARTY

Inspector: MIKE UNDERWOOD
Permit Issued: 06/01/90
Well work Commenced: 6/11/90
Well work Completed: 6/17/90
Verbal Plugging
Permission granted on:
Rotary Cable Ris
Total Depth (feet) 5378'
Fresh water depths (ft) 1065'
Salt water depths (ft) None
Is coal being mined in area (Y/N)? N
Coal depths (ft): 201-206'; 325-330'

Casings & Tubing Size	Used in Drilling	Left in Well	Cement (Fill) Up Cu. Ft.
11 3/4"	221'	221'	86 sks
8 5/8"	1416'	1416'	280 sks
4 1/2"	5245'	5245'	450 sks

OPEN FLOW DATA

Producing formation: Alexander Pay zone depth (ft) 5134-5140
 Gas: Initial open flow 215 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 911 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1300 psis (surface pressure) after 24 Hours

Second producing formation: Benson & Riley Pay zone depth (ft) 4752-4846
 Gas: Initial open flow 215 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 911 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock Pressure 1300 psis (surface pressure) after 24 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: FLUHARTY, THOMAS J. OR REPR I.
 By: *Thomas J. Fluharty*
 Date: June 25, 1990

Alexander	Perforated 13-.39 holes 5134-5140'	586 Bbl H ₂ O, 500 gal. 15% HCL, 10,000# 80/100, 47040# 20/40 sand
Benson	Perforated 5-.39 holes 4752-4754 3-.39 holes 4782-4784 5-.39 holes 4844-4846	584 Bbl H ₂ O, 500 gal. 15% HCL, 10,000# 80/100, 34,220# 20/40 sand
Riley	Perforated 5-.39 holes 4221-4224 3-.39 holes 4284-4286 5-.39 holes 4451-4453	603 Bbl H ₂ O, 500 gal. 15% HCL, 9,280# 80/100, 38,320# 20/40 sand

Well Log:

Formation	Top	Bottom	Remarks
Shale	0	10	
Sandy Shale	10	40	
Shale	40	79	
Sand	79	140	
Sand & Shale	140	201	
Coal	201	206	
Red Rock & Shale	206	325	
Coal	325	330	
Sand & Shale	330	356	
Shale & Red Rock	356	417	
Red Rock	417	475	
Shale	475	852	
Sand & Shale	852	1940	3/4" water at 1065'
Big Lime	1940	2020	Gas Check 2090' 12/10 thru
Big Injun	2020	2121	2" water
Sand & Shale	2121	4220	
First Riley	4220	4226	
Shale	4226	4283	
Second Riley	4283	4287	
Shale	4287	4450	
Third Riley	4450	4454	
Shale	4454	4750	Gas Check 4469' 28/10 thru
Benson Stray	4750	4755	2" water
Shale	4755	4780	
Benson Stray	4780	4784	
Shale	4784	4844	
Benson	4844	4848	
Shale	4848	5133	
Alexander	5133	5142	
Shale	5142	5378	Gas Check 5180' 16/10 thru
TD		5378	2" water

10736

47017-3820

Issued 06/01/90

FORM WW-2B

Page ___ of ___

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

Expires 6/01/92

- 1) Well Operator: Fluharty Enterprises, Inc. 17480 (7) 525
2) Operator's Well Number: Stinespring #4 3) Elevation: 1041'
4) Well type: (a) Oil ___ / or Gas X/
(b) If Gas: Production X/ Underground Storage ___ / Deep ___ / Shallow X/
5) Proposed Target Formation(s): Riley, Benson & Alexander
6) Proposed Total Depth: 5,400' feet
7) Approximate fresh water strata depths: 175', 100', @ 478'?
8) Approximate salt water depths: 844' OK
9) Approximate coal seam depths: None OK.
10) Does land contain coal seams tributary to active mine? Yes ___ / No X/
11) Proposed Well Work: Drill, stimulate new well
12)

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill up (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind ___ Sizes ___ Depths set ___

RECEIVED JUN 01 1990

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP Plat WW-9 WW-2B Bond Blanket Letter Agent

3787

RECEIVED
JUN 01 1990

Date: May 30, 1990
Operator's well number
Stinespring #4
API Well No: 47 - 017 - 3820
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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 Judith Stein
Address Rt. 1, Box 196
West Union, WV 26456
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name None
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
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

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)
- _____ 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 Muharty Enterprises, Inc.
By: [Signature]
Its: President
Address P. O. Box 226
Salem, WV 26426
Telephone 304-782-3831

OFFICIAL SEAL
Earl W. Stewart, Jr.
Notary Public, State of West Virginia
My Commission Expires 4-13-95
Route 7, Box 239, Fairmont, West Virginia

Subscribed and sworn before me this 30th day of May, 19 90

[Signature]

Notary Public

My commission expires April 13, 1995