

*Janie  
9/25/91*

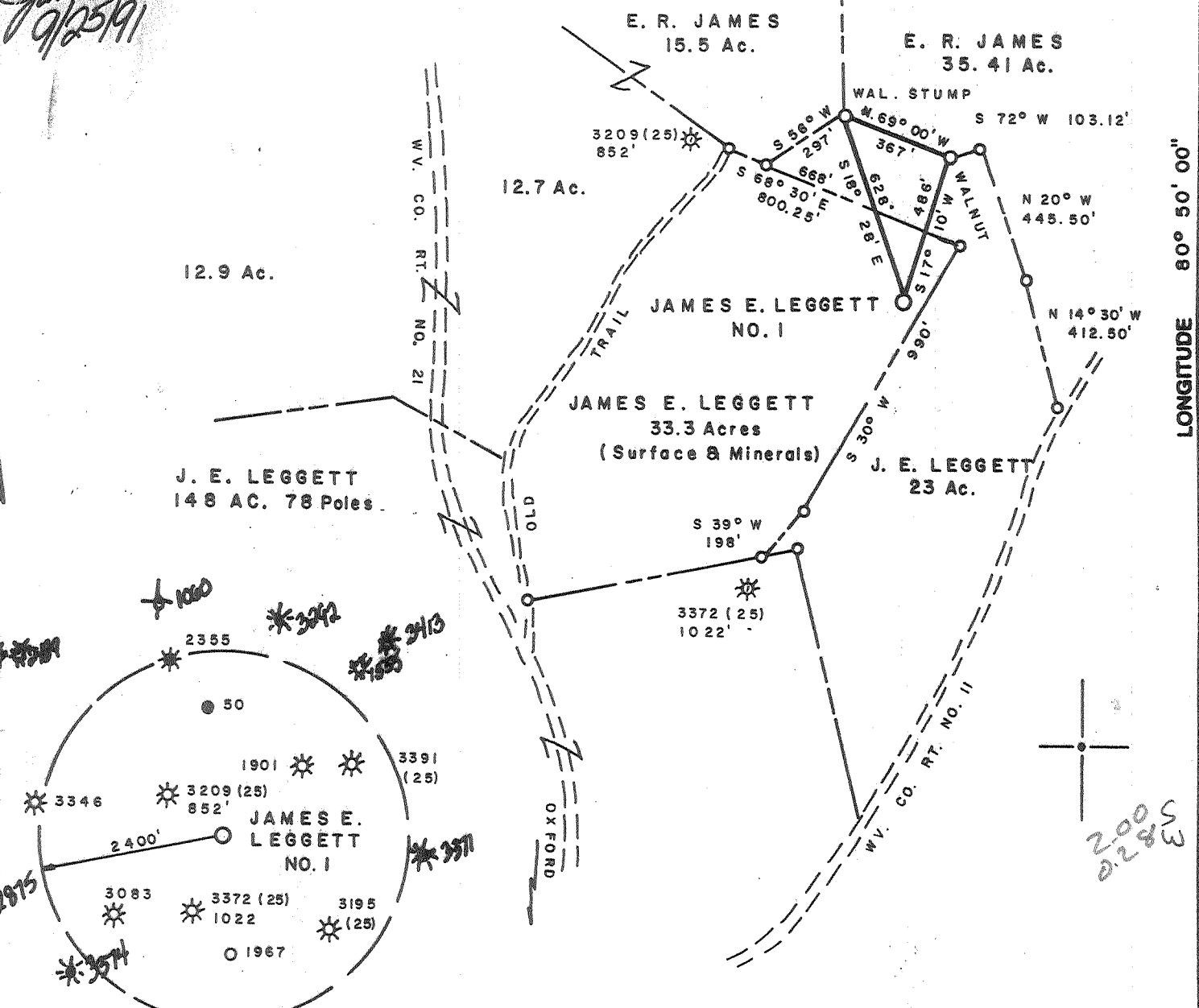
LATITUDE 39° 15' 00"

1500'

100' 05' 08" EQUIDISTANT

10,450'

NORTH



*2,005  
0.28W*

**D.L. WHEELER & ASSOCIATES, INC.**  
 RT. 1, BOX 346  
 CLARKSBURG, WV. 26301  
 Tele. Ph.: 304-623-5851  
 Fax. No.: 304-623-6131

**WELL REF.:**

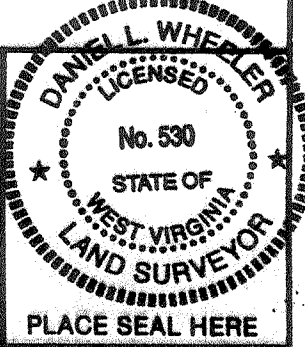
LOC. TO 7" POPLAR N 38° 15' E 128'  
 LOC. TO 7" W. O. S 71° 15' E 136'

*2,005  
0.28W*

(+) 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 # 3372  
ELE V. 1090'

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. \_\_\_\_\_ L.L.S. 530  
**DANIEL L. WHEELER**



PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



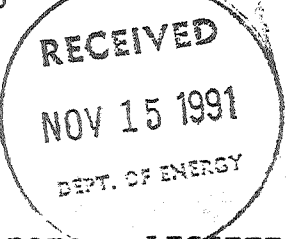
DATE MARCH 26, 19 91  
 OPERATOR'S WELL NO. JAMES E.  
 API WELL NO. LEGGETT NO. 1  
47 - 017 - 3912  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1095' WATERSHED FREDS RUN  
 DISTRICT SOUTH WEST COUNTY DODDRIDGE  
 QUADRANGLE OXFORD 7.5' *Hollowell NC*  
 SURFACE OWNER JAMES E. LEGGETT, ET. UX. ACREAGE 33.3  
 OIL & GAS ROYALTY OWNER JAMES E. & HATTIE LEGGETT LEASE ACREAGE 33.3  
 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) \_\_\_\_\_

SEP 30 1991

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  
6-6 SALEM, WV 26426 *straight Fork Bluest. Crk (133)* SALEM, WV. 26426

COUNTY NAME / PERMIT



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

Reviewed Tm6 Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: LEGGETT, JAMES & HATTIE Operator Well No.: J. E. LEGGETT#1

LOCATION: Elevation: 1095.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 10450 Feet South of 39 Deg. 15Min. 0 Sec.  
Longitude: 1500 Feet West of 80 Deg. 50 Min. 0 Sec.

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

Agent: THOMAS J. FLUHARTY

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/25/91  
Well work Commenced: 10/22/91  
Well work Completed: 10/27/91  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary XX Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5,428'  
Fresh water depths (ft) 390'  
Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	106'	106'	75 sks
8 5/8"	1360'	1360'	300 sks
4 1/2"	5360'	5360'	420 sks

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 649-654'

OPEN FLOW DATA

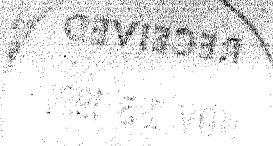
Producing formation Alexander Pay zone depth (ft) 5169-5218  
Gas: Initial open flow 1,700 MCF/d Oil: Initial open flow show Bbl/d  
Final open flow 1,100 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1,400 psig (surface pressure) after 48 Hours

Combined Second producing formation Riley & Balltown Pay zone depth (ft) 4072-4501  
Gas: Initial open flow 1,700 MCF/d Oil: Initial open flow show Bbl/d  
Final open flow 1,100 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1,400 psig (surface pressure) after 48 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 REVA I.  
By: *Thomas J. Fluharty*  
Date: 11/13/91

James E. Leggett #1 Well  
47-017-03912



1st Stage (Alexander) 14-.39 holes 5169-5218' 750 gal. HCL, 10,000# 80/100,  
60,000# 20/40, 610 Bbl H2O

2nd Stage (Riley) 12-.39 holes 4072-4501' 750 gal. HCL, 10,000# 80/100,  
30,000# 20/40, 439 Bbl H2O

3rd Stage (Balltown) 12-.39 holes 3470-3737' 750 gal. HCL, 10,000 80/100,  
60,000# 20/40, 602 Bbl H2O

<u>Formation</u>	<u>From</u>	<u>To</u>
Shale & Sand	0	90
Sand & Shale	90	129
Sand, Shale & Red Rock	129	400
Shale, Sand & Red Rock	400	624
Red Rock	624	629
Sand & Shale	629	649
Coal	649	654
Shale & Sand	654	756
Sand & shale	756	849
Shale, Sand & Red Rock	849	942
Red Rock, Shale & Sand	942	1066
Sand & Shale	1066	1157
Shale & Sand	1157	1890
Big Lime	1890	1985
Big Injun	1985	2047
Sand & Shale	2047	3435
Balltown	3435	3745
Shale	3745	4070
Riley	4070	4075
Shale	4075	4497
Riley	4497	4505
Shale	4505	5160
Alexander	5160	5225
Shale	5225	5428
TD		5428

Hole Damp @ 130'  
1/4" H2O @ 390'

Gas Check @ 2779 Good Odor

13012

RECEIVED

SEP 24 1991

FORM WW-2B

017-3912  
Issued 09/25/91

Page \_\_\_ of \_\_\_

Expires 09/25/93

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

- 1) Well Operator: Fluharty Enterprises, Inc. <sup>0300</sup> 17480 (7) 525
- 2) Operator's Well Number: #1 3) Elevation: 1,095
- 4) Well type: (a) Oil \_\_\_ / or Gas XX /  
(b) If Gas: Production XX / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- 5) Proposed Target Formation(s): Riley, Benson & Alexander <sup>439</sup>
- 6) Proposed Total Depth: 5,400 feet
- 7) Approximate fresh water strata depths: 25', 200', 554'
- 8) Approximate salt water depths: 1404'
- 9) Approximate coal seam depths: 200'-206', 241'-245', 454'-457', 379'-382'
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X / <sup>649'-655'</sup>
- 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	16"			40'		
Fresh Water	11 3/4"		42#	100'	100'	CTS
Coal	8 5/8"		23#	1350'	1300'	CTS
Intermediate						3805R18-11.3 3805R18-11.2
Production	4 1/2"		10 1/2#	5250'	5250'	425 sks
Tubing						3805R18-11.1
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

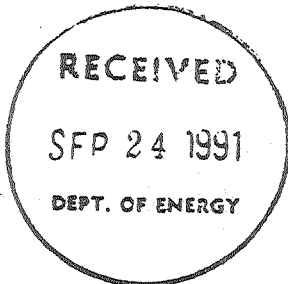
For Division of Oil and Gas Use Only

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

13012

5000

Page 1 of \_\_\_\_\_  
Form WW2-A  
(09/87)  
File Copy



1) Date: September 11, 1991  
2) Operator's well number James E. Leggett #1 Well  
3) API Well No: 47 - 017 - 3912  
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 James E. & Hattie Leggett  
Address Rt. 1, Box 82  
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 N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name N/A  
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)

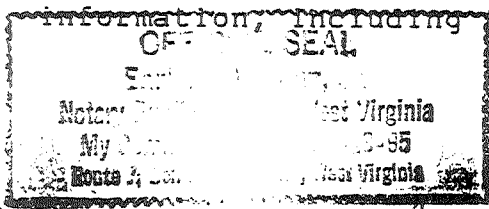
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

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

Subscribed and sworn before me this 11th day of September, 19 91

[Signature]

Notary Public

My commission expires April 13, 1995