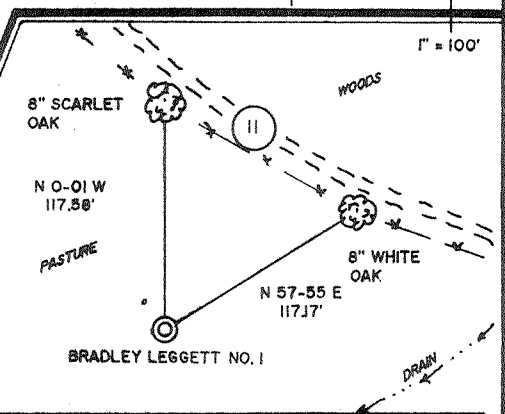
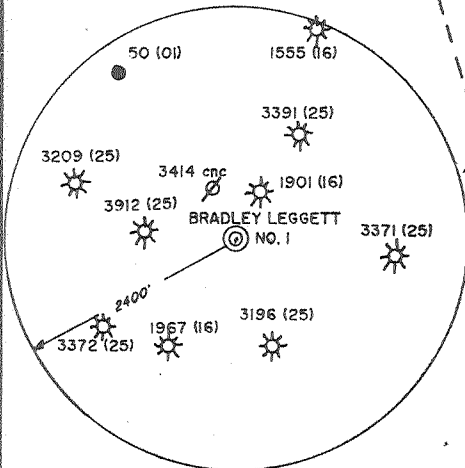
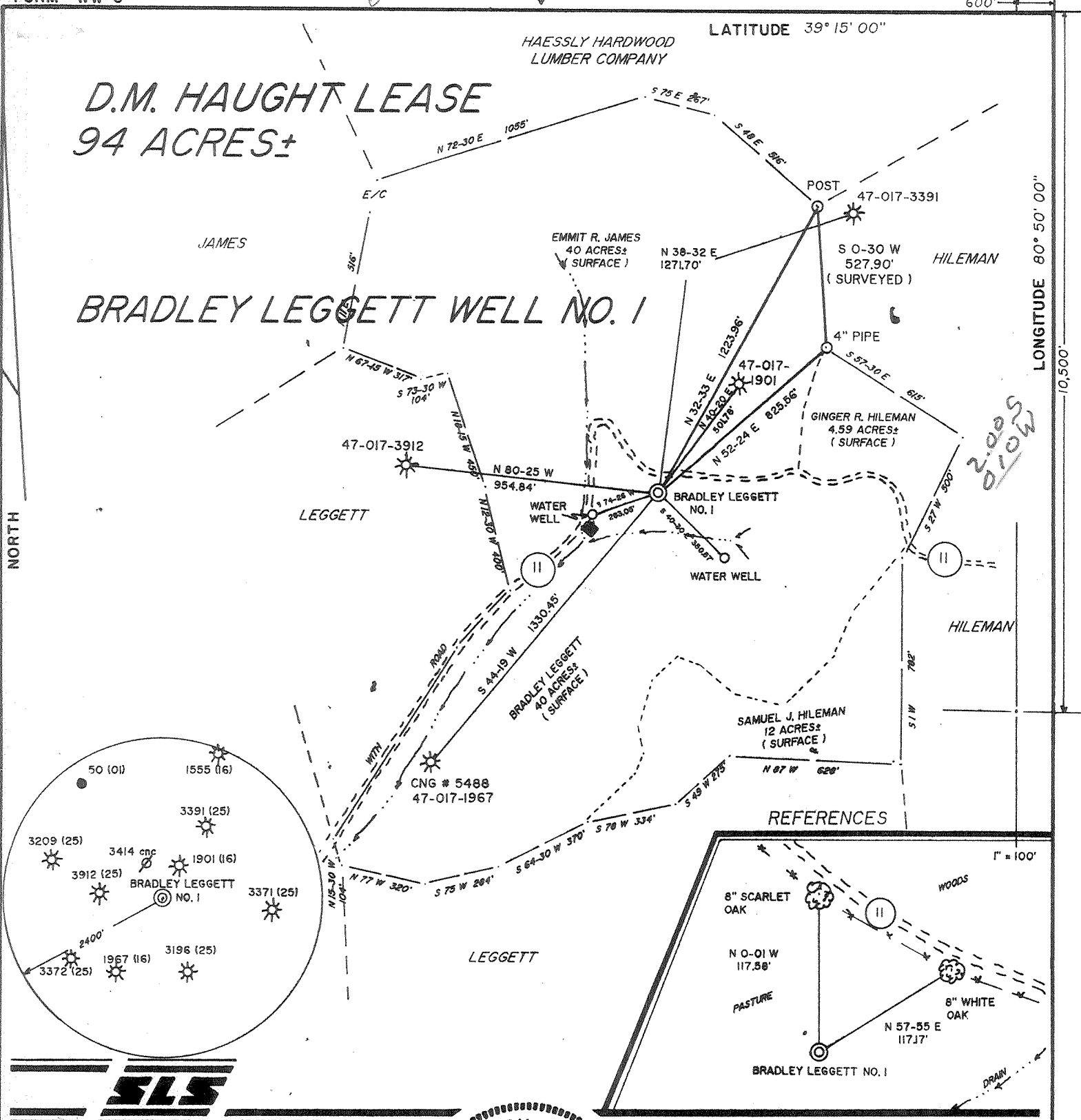


HAESSLY HARDWOOD LUMBER COMPANY

LATITUDE 39° 15' 00"

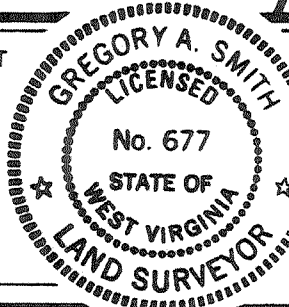
# D.M. HAUGHT LEASE 94 ACRES±

## BRADLEY LEGGETT WELL NO. 1



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.

L.L.S. Gregory A. Smith  
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE DECEMBER 23, 19 92  
 OPERATORS WELL NO. BRADLEY LEGGETT NO. 1  
 API WELL NO. 47 - 017 - 4010  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2954 (41-20)  
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 869' SCALE 1" = 500'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 998' WATERSHED TRIBUTARY TO FRED'S RUN OF SOUTH FORK HUGHES RIVER  
 DISTRICT SOUTHWEST 7 COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

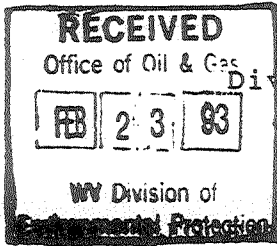
SURFACE OWNER BRADLEY LEGGETT ACREAGE 40 OF 94  
 ROYALTY OWNER D.M. HAUGHT ET. AL. LEASE ACREAGE 94 OF 132

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
 ESTIMATED DEPTH 5400'

WELL OPERATOR FLUHARTY ENTERPRISES Inc. 396 DESIGNATED AGENT THOMAS J. FLUHARTY  
 ADDRESS P.O. BOX 226 SALEM, WV 26426 ADDRESS P.O. BOX 226 SALEM, WV 26426

LONGITUDE 80° 50' 00" COUNTY NAME PERMIT



State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm BRADLEY & ETUX, BRADLEY & ETUX Operator Well No.: B. LEGGETT 1

LOCATION: Elevation: 998.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 10500 Feet South of 39 Deg. 15Min. 0 Sec.  
Longitude 600 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: FLUHARTY ENTERPRISES, INC  
P. O. BOX 187  
SALEM, WV 26426-0000

Agent: THOMAS J. FLUHARTY

Inspector: MIKE UNDERWOOD  
Permit Issued: 12/28/92  
Well work Commenced: 12/31/92  
Well work Completed: 01/14/93  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable X Rig  
Total Depth (feet) 5,355'  
Fresh water depths (ft) 115' & 395'

Salt water depths (ft) none

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	175'	175'	115 sks
8 5/8"	1,394'	1,394'	280 sks
4 1/2"	5,270'	5,270'	435 sks

OPEN FLOW DATA

Producing formation Alexander/Benson/Riley Pay zone depth (ft) 5051-5101'  
Gas: Initial open flow 1,100 MCF/d Oil: Initial open flow show Bbl/d  
Final open flow 720 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1,600 psig (surface pressure) after 24 Hours

combined Second producing formation Balltown Pay zone depth (ft) 3343-3649'  
Gas: Initial open flow 1,100 MCF/d Oil: Initial open flow show Bbl/d  
Final open flow 720 MCF/d Final open flow show Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1,600 psig (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 ENTERPRISES, INC

Reviewed TMG  
Recorded \_\_\_\_\_

By: Thomas J. Fluharty  
Date: February 19, 1993

Well Fractured 1/22/93 by Halliburton Services

Alexander	13-.39 holes	5051 to 5101'	500 gal. 15% HCL, 600 bbl H2O, 10,000# 80/100, 50,000# 20/40,
Benson/Riley	10-.39 holes	4383 to 4788'	500 gal. 15% HCL, 420 bbl H2O, 10,000# 80/100, 30,000# 20/40
Balltown	11-.39 holes	3343 to 3649'	500 gal. 15% HCL, 460 bbl H2O, 10,000# 80/100, 40,000# 20/40

Well was logged and perforated by Allegheny Wireline Services, Inc.

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Comments</u>
Red Rock	0	10	
Sand & Shale	10	70	
Red Rock	70	100	
Sand	100	105	
Sand & Shale	105	749	Hole Damp @ 115' & @ 395'
Sand	749	761	
Lime	761	819	
Sand & Shale	819	1060	Odor of oil @ 985'
Sand	1060	1072	
Sandy Shale	1072	1826	
Big Lime	1826	1930	
Sand & Shale	1930	2800	Gas Check @ 2299 = 40/10 2" water
Sand	2800	2820	Gas Check @ 2552 = 32/10 2" water
Sand & Shale	2820	4042	Gas Check @ 2769 = 32/10 2" water
Sandy Shale	4042	4367	Gas Check @ 3143 = 26/10 2" water
Shale	4367	5355	Gas Check @ 4950 = 30/10 2" water
TD		5355'	

DFT = 439

OF = 424

18571

47-017-4010

FORM WW-2B

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

Page of

Issued 12/28/92

Expires 12/28/94

- 1) Well Operator: Fluharty Enterprises, Inc. 17480 (7) 525
- 2) Operator's Well Number: Bradley Leggett #1 Well 3) Elevation: 998'
- 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: 90'
- 8) Approximate salt water depths: 1200'
- 9) Approximate coal seam depths: none
- 10) Does land contain coal seams tributary to active mine? Yes    / No X
- 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	
Conductor	16"			40'		3805R/8/11.3
Fresh Water	11 3/4"		42#	160'	160'	CTS
Coal	8 5/8"		23#	1475'	1475'	CTS
Intermediate						3805R/8/11.2
Production	4 1/2"		10 1/2#	5175'	5175'	400 sks
Tubing						3805R/8/11.1
Liners						

PACKERS : Kind             
Sizes             
Depths set           

**RECEIVED**

WV Division of Environmental Protection

DEC 23 92

For Division of Oil and Gas Use Only

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

Permitting Office of Oil & Gas

1) Date: December 23, 1992  
2) Operator's well number  
Bradley Leggett #1 Well  
3) API Well No: 47 - 017 - 4010  
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 Bradley & Rosemary Leggett  
Address Rt. 1  
West Union, WV 26456  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV  
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:  
\_\_\_\_\_ 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 Fluharty Enterprises, Inc.  
By: Thomas J. Fluharty  
Its: Pres.  
Address P. O. Box 226  
Salem, WV 26426  
Telephone \_\_\_\_\_

**RECEIVED**  
WV Division of  
Environmental Protection  
**DEC 23 92**  
Permitting, P9 92  
Office of Oil & Gas  
Notary Public

**SPECIAL SEAL**  
Notary Public  
State of West Virginia  
My commission expires April 13, 1995

Subscribed and sworn to before me this 23rd day of December, 1992  
My commission expires April 13, 1995