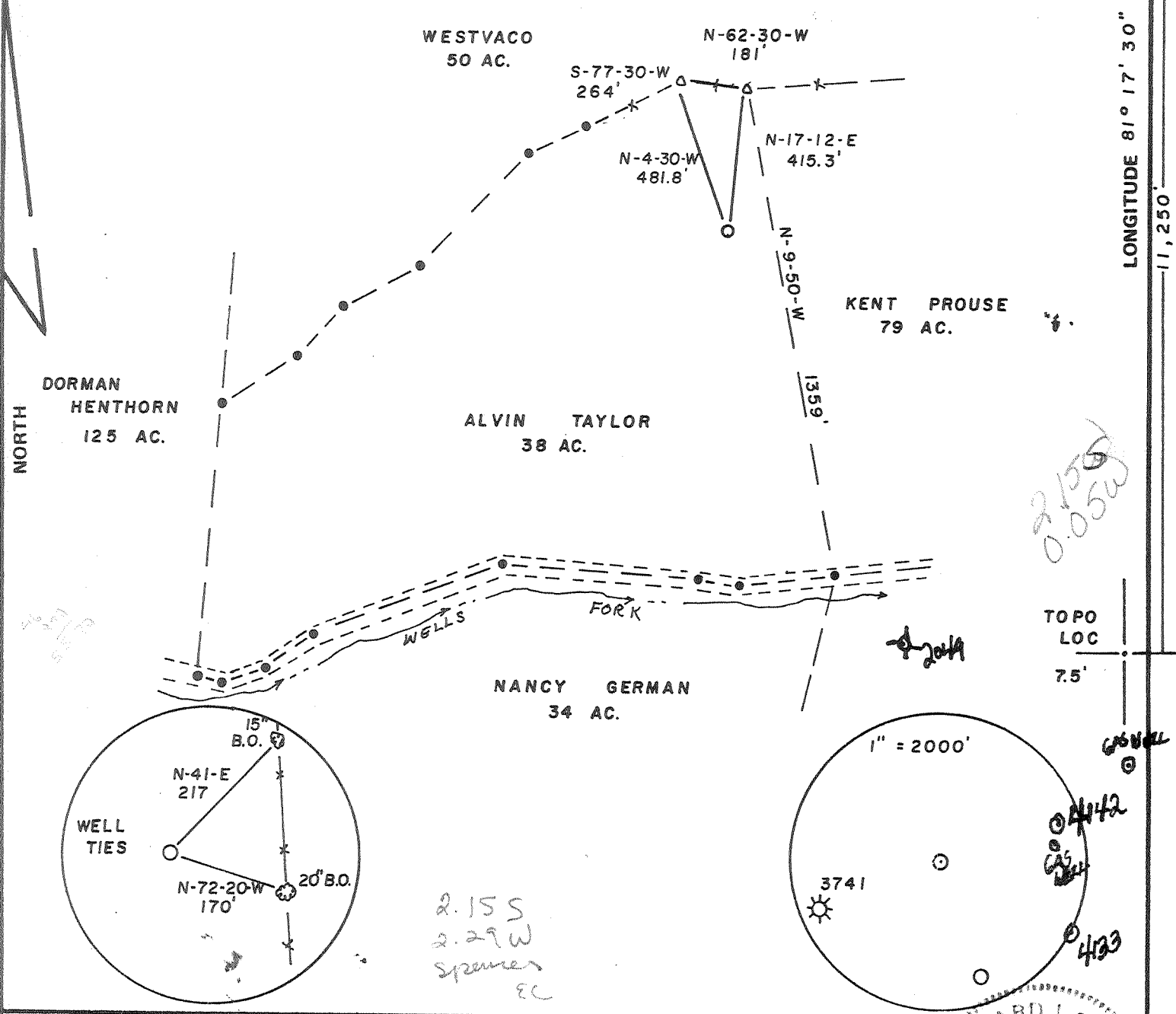


Jamie 10/30/90

LATITUDE 38° 55'

300

LONGITUDE 81° 17' 30"



FILE NO. JENNINGS LEASE
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION B.M. AT BARNES RUN SCHOOL BLDG. ELY= 696

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) Richard J. Pica
 R.P.E. _____ L.L.S. 851

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 10-16, 1990
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-087-4143
 STATE COUNTY PERMIT

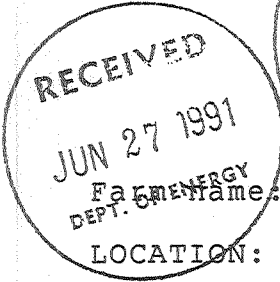
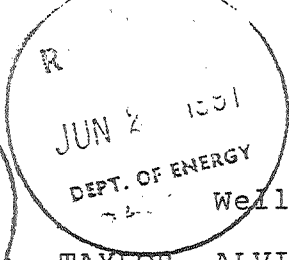
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 970 WATER SHED BARNES RUN OF WEST FORK OF L.K.R.
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE BURNING SPRINGS
 SURFACE OWNER ALVIN TAYLOR ACREAGE 38
 OIL & GAS ROYALTY OWNER HARRY C. BOGGS LEASE ACREAGE 955
 LEASE NO. JENNINGS
 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 DEVONIAN SHALE ESTIMATED DEPTH 6000
 WELL OPERATOR BOGGS NATURAL GAS DESIGNATED AGENT HARRY C. BOGGS
 ADDRESS P.O. BOX 148 ADDRESS P.O. BOX 148 3-3 Triplett (16S)
SPENCER, W.V. 25276 SPENCER, W.V. 25276

NOV 5 1990

DPD Onon.

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



Well Operator's Report of Well Work

Operator Well No.: JENNINGS 4

Name: TAYLOR, ALVIN

LOCATION: Elevation: 970.00 Quadrangle: BURNING SPRINGS

District: SPENCER County: ROANE
Latitude: 11250 Feet South of 38 Deg. 55Min. 0 Sec.
Longitude 300 Feet West of 81 Deg. 17 Min. 30 Sec.

Company: BOGGS NATURAL GAS CO.
P. O. BOX 148
SPENCER, WV 25276-0000

Agent: HARRY C. BOGGS

Inspector: HOMER DOUGHERTY
Permit Issued: 06/07/91
Well work Commenced: 5/28/91
Well work Completed: 6/10/91
Verbal Plugging
Permission granted on: _____
Rotary xx Cable _____ Rig
Total Depth (feet) 5982
Fresh water depths (ft) 80'

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? no
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 3/4"	215'	215'	surface
7"	1920'	1920'	500' line
4 1/2"	5970'	5970'	3000' line

OPEN FLOW DATA

Producing formation Corniferous Lime Pay zone depth (ft) 5800'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 300 MCF/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 600 psig (surface pressure) after 12 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ 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 _____ psig (surface pressure) after _____ 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: BOGGS NATURAL GAS CO.

By: Harry C. Boggs
Date: 6/20/90

JUN 28 1991

0	1900'	sand/shale
1900	2030'	Big Lime
2030	2050'	Big Injun
2050	2420'	shale
2420	2430	Berea
2430	5750'	Devonian Shale
5750	5982'	TD Corniferous Lime

0000, 5800' 5850' 50 perforations 400 bbl 15% HCl

5982
5750

232 -expl. ftg.

77777

12383

087-4143

Issued 10/30/90

Page ___ of ___

Expires 10/30/92

FORM WW-2B

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

- 1) Well Operator: Boggs Natural Gas 6455 (6) 271
- 2) Operator's Well Number: Jennings # 4 3) Elevation: 970
- 4) Well type: (a) Oil ___ / or Gas xx /
(b) If Gas: Production x / Underground Storage ___ /
Deep ___ / Shallow x /
- 5) Proposed Target Formation(s): 441 Devonian Shale
- 6) Proposed Total Depth: 6000 feet
- 7) Approximate fresh water strata depths: 150', 274'
- 8) Approximate salt water depths: None 1610'
- 9) Approximate coal seam depths: None

10) Does land contain coal seams tributary to active mine? Yes ___ / No xx

11) Proposed Well Work: Drill and Frac 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						
Fresh Water	9 5/8"			200'	200'	surface
Coal						38CSR18-11.3
Intermediate	7"			1900'	1900'	300'
Production	4 1/2"			6000'	6000'	2500'
Tubing						
Liners						

DEC 11

OCT 2

PACKERS : Kind _____
Sizes _____
Depths set _____

16481
31

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCS

Plat WW-9 WW-2B Bond CC Bucket Agent

(Type)

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

REC

OCT 29 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: October 23, 1990
2) Operator's well number
Jennings # 4
3) API Well No: 47 - 087 - 4143
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 Alvin Taylor
Address Spencer, WV 25276

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Homer Dougerty
Address Looneyville WV
Telephone (304)- _____

5) (a) Coal Operator:
Name None
Address _____

(b) Coal Owner(s) with Declaration
Name _____
Address _____

Name _____
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 xxx 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:
xxx Personal Service (Affidavit attached)
_____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 33 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 Boggs Natural Gas
By: Jeffery C. Boggs
Its: Petroleum Engineer
Address P.O. 148
Spencer, WV 25276
Telephone 927 1236

Subscribed and sworn before me this 23rd day of October, 1990

Zerelda D. Price Notary Public
My commission expires July 13, 1992

Commissioned as: Zerelda D. Richards