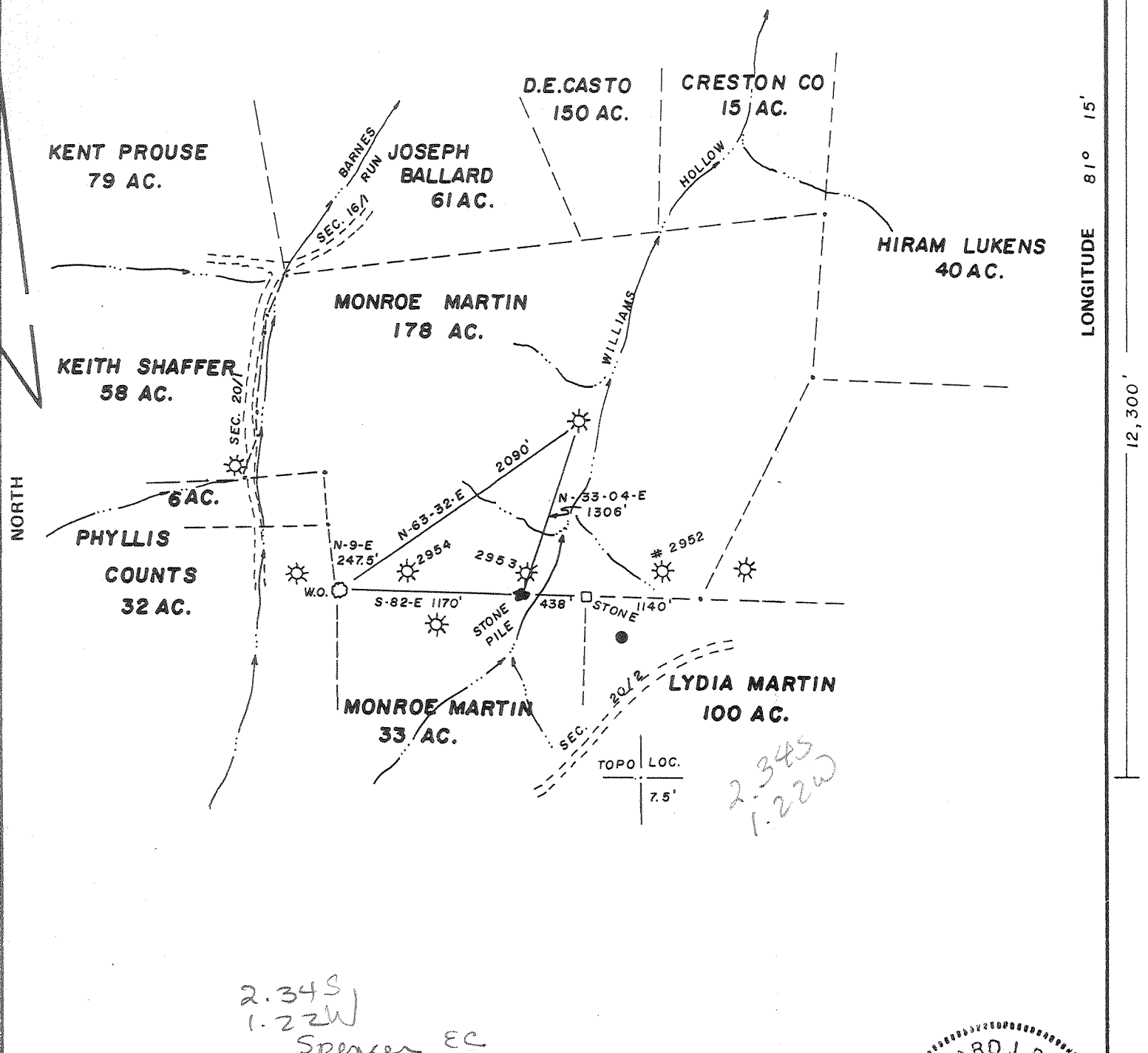


Jamie 9/1/90

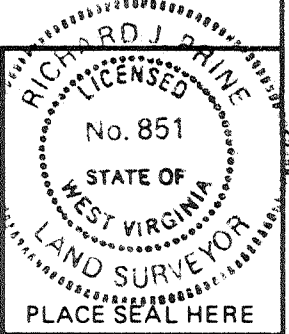
LATITUDE 38° 55'



*2.34S
1.22W
Spencer EC*

FILE NO. JENNINGS LEASE
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION B.M. AT BARNES RUN SCHOOL BLDG. EL. = 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. Prine
 R.P.E. _____ L.L.S. 851



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 8-20, 19 90
 OPERATOR'S WELL NO. 192
 API WELL NO. _____
47 - 087 41350
 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 780 WATER SHED BARNES RUN OF WEST FORK OF L.K. RIVER
 DISTRICT SPENCER COUNTY ROANE
 QUADRANGLE BURNING SPRINGS
 SURFACE OWNER MONROE MARTIN ACREAGE 178
 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) _____

SEP 14 1990

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 6000
 WELL OPERATOR BOGGS NATURAL GAS DESIGNATED AGENT HARRY C. BOGGS
 ADDRESS P.O. BOX 148 ADDRESS P.O. BOX 148
SPENCER, W.V. 25276 SPENCER, W.V. 25276 (drilled) (84 087 4143)

099041811-0W00 3-3 000 Triplicat (1GE) NAD - 0000

GOFF & HECK NO. 5 WELL.

Spencer District, Roane County, W. Va.
By Godfrey L. Cabot, Inc.
On 709-5/16 acres.
Keller Map I-22.
Elevation.....
Completed April 6, 1918.
Dry hole.
From Heck's notes.

70122
Left

	Top.	Bottom.
Big Lime	1852	- 1912
Big Injun Sand	1912	- 1945
Berea shell	2360	-
Total depth		2400

GOFF & HECK NO. 6 WELL.

By Godfrey L. Cabot, Inc.
Completed May 31, 1918.
Gas well. 15/10 Merc. in 6 $\frac{5}{8}$ " Berrea?

70123

	Top.	Bottom.
Total depth		2228 (?)

GOFF & HECK NO. 7 WELL.

By Godfrey L. Cabot, Inc.
Completed Sept. 28, 1918.
Gas well. 32/10 Merc. in 4". Big Injun Sand.

70124

	Top.	Bottom.
Big Lime	1989	- 2361
Big Injun Sand	2361	- 2393
Total depth		2393

GOFF & HECK NO. 8 WELL.

By Godfrey L. Cabot, Inc.
Completed Sept. 17, 1918.
Gas well. 20/10 Merc. in 4". Berrea Sand.

70125
now: 087 4135

	Top.	Bottom.
Big Lime	1623	- 1710
Berea Sand	2136	- 2161
Total depth		2178

FORM RECEIVED
 DIVISION 2B
 AUG 27 1990

087-4135-DD
 Issued 9/10/90 Page ___ of ___
 Expires 9/10/92

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

- 1) Well Operator: ⁴¹⁶⁶ Boggs Natural Gas 6455 (6) 271
- 2) Operator's Well Number: Jennings 192 3) Elevation: 780
- 4) Well type: (a) Oil ___ / or Gas xx /
 (b) If Gas: Production x / Underground Storage ___ /
 Deep xx / Shallow ___ /
- 5) Proposed Target Formation(s): ⁴⁷⁵ Oriskany
- 6) Proposed Total Depth: 6000' feet
- 7) Approximate fresh water strata depths: 100'
- 8) Approximate salt water depths: Unknown
- 9) Approximate coal seam depths: none
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No xx
- 11) Proposed Well Work: Drill existing well deeper and frac
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	10 3/4"			430	430	existing
Coal						existing
Intermediate	7"			1623	1623	existing
Production	4 1/2"			6000	6000	2500 linear
Tubing						38 CSP 11.1
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid Well Work Permit Reclamation Fund WPCF
 Plat WW-9 WW-2B Bond L.C. Blanket Ager
 (Type)

163714
 24

1) Date: August 22, 1990
2) Operator's well number
Jennings 192
3) API Well No: 47 - 087 - 4135-DD
State - County - Permit

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

AUG 27 90
Permitting
Oil and Gas Section

4) Surface Owner(s) to be served:
(a) Name Monroe Mattin
Address New Martinsville WV

(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Homer Dougherty
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 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.

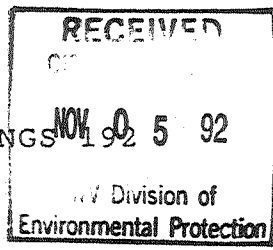
Well Operator Boggs Natural Gas Co
By: Jeffery C. Boggs
Its: Petroleum Engineer
Address P.O. 148
Spencer, WV 25276
Telephone 927 1236

Subscribed and sworn before me this _____ day of _____, 19____

My commission expires _____ Notary Public

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

Well Operator's Report of Well Work



Well name: MARTIN, MONROE Operator Well No.: JENNINGS
 Elevation: 780.00 Quadrangle: BURNING SPRINGS
 District: SPENCER County: ROANE
 Latitude: 12300 Feet South of 38 Deg. 55Min. 0 Sec.
 Longitude 6500 Feet West of 81 Deg. 15 Min. 0 Sec.

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

Agent: HARRY C. BOGGS

Inspector: HOMER DOUGHERTY
 Permit Issued: 09/10/90
 All work Commenced: 10/15/90
 All work Completed: 12/06/90

Orbital Plugging
 Permission granted on: _____
 Cable Rig
 Total Depth (feet) 6560'
 Fresh water depths (ft) N/A
 Salt water depths (ft) unknown

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.
7"	1623	1623	existing
5 1/2"	2100	2100	300' linear
3 1/2"	5650'	5650	3000' linear

WELL FLOW DATA

Producing formation Corniferous Lime Pay zone depth (ft) 5600-50
 Gas: Initial open flow 100 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1,500 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 18 Hours
 Static rock Pressure 1250 psig (surface pressure) after 48 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.

NOV 6 1992

Reviewed TM6
 Recorded _____

By: O. F. J. C. Boyd
 Date: 12/17/90

0	2100	existing well bore
2100	2150	shale
2150-	2180	Berea
2180	5480	Devonian Shale
5480	5780	Corniferous Lime
5780	5830	Oriskany
5830	6560	TD Chert/dolomite Silurian

2178
 (4382) new ftg

subject/
 Lockport/MLL?

FRAC: 30 shots @ 5600-5630 95 BBL HCL 170,000 SCF N2

6560
 5480
 (1080) expl. ftg.