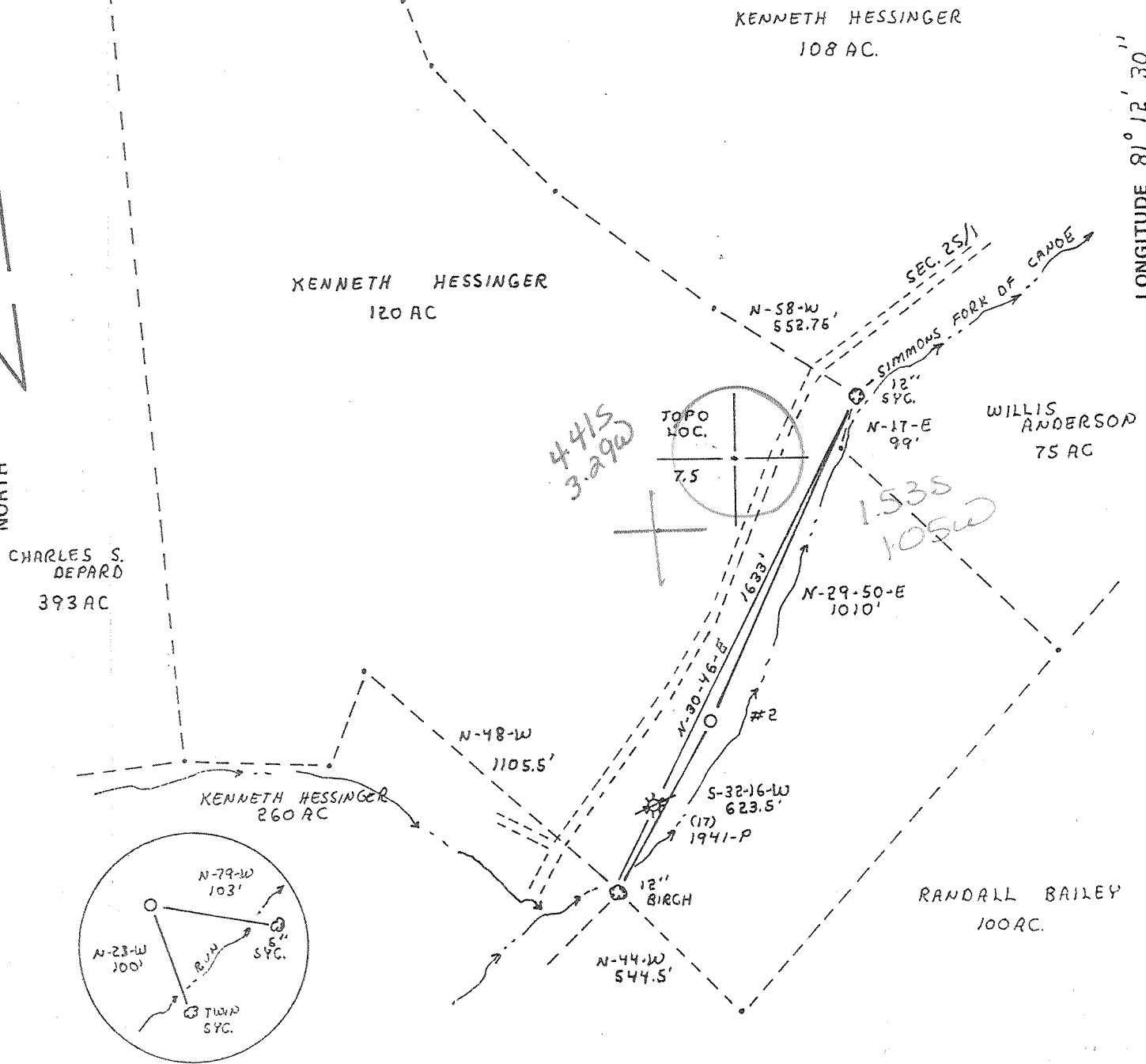


LATITUDE 38° 42' 30"

LONGITUDE 81° 12' 30"

8/10/87

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1" IN 200
 PROVEN SOURCE OF ELEVATION RD INTER 700'±
S/W OF WELL BLY = 847

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) Malcolm J. Board
 R.P.E. _____ L.L.S. 526

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 8-3, 1987
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-087-4056
 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 835 WATER SHED CANOE FORK OF HENRY FORK
 DISTRICT SMITHFIELD 5 COUNTY ROANE
 QUADRANGLE TARIFF 7.5' 635 096 NW, offer
 SURFACE OWNER KENNETH HESSINGER ACREAGE 120
 OIL & GAS ROYALTY OWNER BRUCE BLACK LEASE ACREAGE 120
 LEASE NO. _____
 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 Corniferous lime ESTIMATED DEPTH 5600'
 WELL OPERATOR HARRY BOGGS DESIGNATED AGENT HARRY BOGGS
 ADDRESS P.O. Box 148 ADDRESS P.O. Box 148
SPENCER, W.V. 25276 1075 SPENCER, W.V. 25276

FORM IV-6 (8-78)

AUG 17 1987

DEEP WELL 120

(198)

WR-35



State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date 10/15/87
Operator's
Well No. Simmons #4
Farm Heisinger
API No. 47 - 087 - 4056

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production ___ / Underground Storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 835 Watershed Canoe Run
District: Smithfield County Roane Quadrangle Tariff

COMPANY Boggs Natural Gas Company

ADDRESS P. O. Box 148 Spencer, WV 25276

DESIGNATED AGENT Harry C. Boggs

ADDRESS P.O. Box 148 Spencer, WV 25276

SURFACE OWNER Ken Heisinger

ADDRESS Blairstown, NJ

MINERAL RIGHTS OWNER Bruck Black

ADDRESS Columbia Station, OH 44028

OIL AND GAS INSPECTOR FOR THIS WORK Homer

Daugherty ADDRESS Looneville, WV

PERMIT ISSUED 8/10/87

DRILLING COMMENCED 8/30/87

DRILLING COMPLETED 9/09/87

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON 9/9/87

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	150	150	Surface
9 5/8			
8 5/8			
7	1,800	1,800	600'
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Corniferous Lime Depth 5,700 feet
Depth of completed well 5,765 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 100 feet; Salt _____ feet
Coal seam depths: N/A Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation N/A Pay zone depth N/A feet
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 measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Set bridge plug at 5,700'
 Plugged well 9/9/87
 Pulled 1,000' of 7" - set cement plug at cut-off

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Injun			1,780	1,810	
			2,160	2,175	
Berea			2,175	2,190	
Shale			2,190	5,530	
Marcellus Shale			5,530	5,566	
Corniferous Lime			5,566	5,765 TD	

(Attach separate sheets as necessary)

Boggs Natural Gas Company
 Well Operator

By: Nancy C. Boggs
 Date: 10/15/87

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including sand, encountered in the drilling of a well."

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AUG 05 1987



1) Date: July 30, 19 87
 2) Operator's Well No. Simmons # 4
 3) API Well No. 47 State 087 County 087 Permit 4056

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

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 835 Watershed: Cane FK of Henry FK
 District: Smithfield 5 County: Roane 087 Quadrangle: TARRIFF 034
 6) WELL OPERATOR Boggs Natural Gas CODE: 6455 7) DESIGNATED AGENT Harry C. Boggs
 Address P.O. 148 Spencer WV Address P.O. 148 Spencer WV
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Homer Daugherty 9) DRILLING CONTRACTOR:
 Address Looneyville WV Name Boggs Natural Gas
 Address P.O. 148 Spencer WV
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Production State CORNIFEROUS
 12) Estimated depth of completed well, 5400 feet
 13) Approximate trata depths: Fresh, 75 feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic Feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor								Linear		
Fresh water	10"					150'	150'	Surface	By Rule 15.05	
Coal										
Intermediate	7"					1800'	1800'	600'	By Rule 15.01	
Production	4 1/2"					5550	5550	3000'	By Rule 15.01	
Tubing										
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-087-4056 Date August 10 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires August 10, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>224</u> <u>14274</u>	WPCP: <input checked="" type="checkbox"/>	S&S: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
---	--	---	---	---------------------------------	---	--	---------------------------------

NOTE: Keep one copy of this permit posted at the drilling location. _____
 Director, Division of Oil and Gas File

RECEIVED
SEP 25 1987

FORM WR-38
(Affidavit of Plugging)

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Coal Operator or Owner _____
 Address _____
 Coal Operator or Owner _____
 Address _____
 Lease or Property Owner _____
 Address _____

Boggs Natural Gas Co
 Name of Well Operator
P.O. 148 Spencer WV 25226
 Complete Address
Simmons # 4 19 87
 WELL AND LOCATION
Smithfield District
Roane County
 WELL NO. Simmons # 4

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OCT 22 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
STATE INSPECTOR SUPERVISING PLUGGING

Kenneth Hessinger Farm
Honer Daugherty

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Roane

ss:

Jack Mace and Larry Stull
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Boggs Natural Gas Co, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 9 day of September, 19 87, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
<u>Bridge plug set @ 5200 ft</u>		<u>Bridge Plug</u>		<u>↓</u>
	<u>GEH 5200-1900</u>			
	<u>Cement 18 SK 1900-1800</u>			
	<u>GEH 1800 - 650</u>			
	<u>Cement 31 SK 650-550</u>			
	<u>GEH 550 - 282</u>			<u>7" 650'</u>
	<u>Cement 9 SKS 282-182</u>			
	<u>GEH 182 - 50</u>			
	<u>Cement 60 SKS 50 - 0</u>			
Coal Seams				
(Name)				
(Name)				
(Name)				
(Name)				
				<u>3' of 10 3/4" Pipe</u>
				<u>enclosed with plugging permit</u>
				<u># and date of plug</u>

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DEC 10 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

W. J. Richards 12/16/87
 Description of Monument
3' of 10 3/4" Pipe
enclosed with plugging permit
and date of plug

and that the work of plugging and filling said well was completed on the 9 day of September, 19 87.
And further deponents saith not.

Sworn to and subscribed before me this 24th day of September, 19 87.

Jack Mace
Larry J. Stull
William D. Richards
 Notary Public

My commission expires:
July 13, 1992

DEC 21 1987
Permit No. 47-087-4056-P