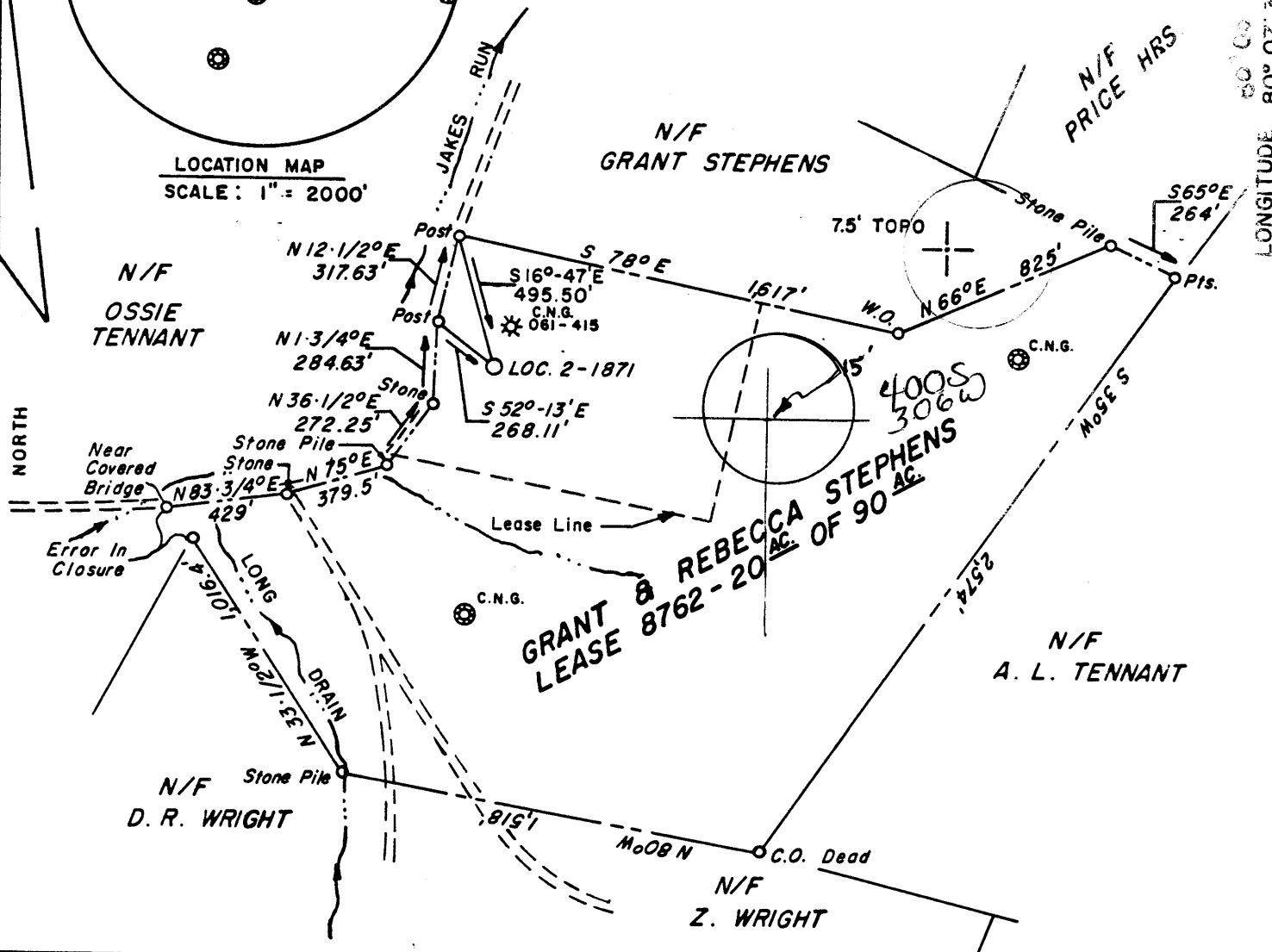


LOCATION MAP
SCALE: 1" = 2000'



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 600'
MINIMUM DEGREE OF ACCURACY 1:2,500
PROVEN SOURCE OF ELEVATION INTER. CO. ROADS #31
#22 #37/1 ELEV. = 956'

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) Duane R. [Signature]
R.P.E. 8993 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)



DATE JUNE 9, 1982
OPERATOR'S WELL NO. 2-1871
API WELL NO. 47 061 0703
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1060' WATER SHED JAKES RUN
DISTRICT CLAY COUNTY MONONGALIA
QUADRANGLE BLACKSVILLE T15 NC
SURFACE OWNER JESS STATLER ACREAGE 90
OIL & GAS ROYALTY OWNER GRANT STEPHENS et al LEASE ACREAGE 20
LEASE NO. 8762
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 ELK ESTIMATED DEPTH 5990'
WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT J. C. STEPHENSON, DIVISION SUPERINTENDENT
ADDRESS 3904 MAIN STREET ADDRESS P.O. BOX, 387
MUNHALL, PA. 15120 MANNINGTON, W. VA. 26582

AUG 16 1982



STATE

IV-35
(Rev 8-81)

RECEIVED

FEB 24 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date Jan. 21, 1983
Operator's
Well No. 2-1871
Farm Grant Stephens
API No. 47 - 061 - 0703

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 x / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1060 Watershed Jakes Run
District: Clay County Monongalia Quadrangle Blacksville

COMPANY Carnegie Natural Gas Company
ADDRESS 800 Regis Ave., Pittsburgh, Pa 15236
DESIGNATED AGENT J. C. Stephenson
ADDRESS PO Box 387, Mannington, WV 26582
SURFACE OWNER Jess Statler
ADDRESS Rt. #1, Box 103, Core, WV 26529
MINERAL RIGHTS OWNER Grant Stephens, et al
ADDRESS 2000 Classen Blvd., Suite 206 Arcade
Oklahoma City, Ok 73106
OIL AND GAS INSPECTOR FOR THIS WORK William Blosser
ADDRESS Rt. #4, Box 317 Fairmont, WV 26554
PERMIT ISSUED July 21, 1982
DRILLING COMMENCED Sept. 14, 1982
DRILLING COMPLETED Sept. 22, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
13-10"			
9 5/8			
8 5/8	1735	1735	370 sacks
7			
5 1/2			
4 1/2	5513	5513	365 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5990 feet
Depth of completed well 5513 feet Rotary x / Cable Tools
Water strata depth: Fresh 80 feet; Salt feet
Coal seam depths: 139-142, 228-234, 492-497, 550-555, 580-489. Is coal being mined in the area? yes

OPEN FLOW DATA
Co-mingled: Balltown See back
Producing formation 1st Elk Pay zone depth 3742-3977 feet
Gas: Initial open flow 47 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 249 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 1250 psig (surface measurement) after 17 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

MAR 07 1983

(Continue on reverse side)

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

Total Depth: 5988'
Filled up to: 5513'
Fractured: Oct. 21, 1982

Perforations: 1st Stage 1st Elk 5379-5425 14 holes
2nd Stage Balltown 3740-4222 15 holes

Fractured:

1st Stage:	500 Gals.	HCL Acid	2nd Stage:	500 Gals.	HCL Acid
	5,000 #	80/100 Sand		5,000 #	80/100 Sand
	35,000 #	20/40 Sand		35,000 #	20/40 Sand
	480 Bbls.	Water		470 Bbls.	Water
	105,000 SCF	Nitrogen		70,000 SCF	Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Topsoil			0	15	
Shale			15	70	
Sand			70	85	
Shale and Sand			85	139	Water - 1/2" stream at 80'
Coal			139	142	
Sand and Shale			142	169	
Sand			169	228	
Coal			228	234	
Sand and Shale			234	492	
Coal			492	497	
Sand and Shale			497	550	
Coal			550	555	
Sand and Shale			555	580	
Coal			580	589	
Sand and Shale			589	697	
Sand			697	798	
Shale			798	850	
Red Rock			850	865	
Sand and Shale			865	1120	
Sand			1120	1160	
Sand and Shale			1160	1288	
Sand and Shale			1288	1341	
Sand and Shale			1341	1465	
Sand			1465	1578	
Sand and Shale			1578	1675	
Red Rock			1675	1695	
Sand and Shale			1695	1722	
Little Lime			1722	1735	5988
Pencil Cave			1735	1741	3100
Big Lime			1741	1832	2888-expl. etc.
Big Injun			1832	1882	
Sand and Shale			1882	1905	
Sand			1905	2019	
Sand and Shale			2019	2695	
Red Rock and shale			2695	2720	
Sand and Shale			2720	5988	

Total Depth

5988 *Brallier @ T.D.*

(Attach separate sheets as necessary)

Carnegie Natural Gas Company
Well Operator
By: *Lois G. Ludwig Sr. Geol.*
Date: *2-22-83*

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 coal, encountered in the drilling of a well."



Date: July 19, 19 82

Operator's Well No. Stephens Well No. 2-1871

API Well No. 47 061 0703

State County Permit

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

WELL TYPE: Oil / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow x /)

LOCATION: Elevation: 1060 Watershed: Jakes Run
District: Clay County: Monongalia Quadrangle: Blacksville

WELL OPERATOR Carnegie Natural Gas Co. DESIGNATED AGENT J. C. Stephenson
Address 3904 Main St. Address PO Box 387
Muhall, Pa. 15120 Mannington, WV 26582

OIL & GAS ROYALTY OWNER Grant Stephens, et al COAL OPERATOR Consolidation Coal Co.
Address 2000 Classen Blvd. Address Po Box 1314
Suite 206 Arcade Morgantown, WV 26505
Oklahoma City, Oklahoma 73106

ACREAGE 20 COAL OWNER(S) WITH DECLARATION ON RECORD:
Name RECEIVED
Address JUL 21 1982
Name OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
Address

FIELD SALE (IF MADE) TO:
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name William Blosser
Address Rt. #4, Box 317
Fairmont, WV 26554
Phone: 304-363-9105

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease x
other contract / dated Dec. 19, 19 13, to the undersigned well operator from Grant
and Rebecca Stephens

(IF said deed, lease, or other contract has been recorded):
Recorded on May 22, 19 18, in the office of the Clerk of the County Commission of Monongalia County, West
Va., in Lease Book 153 at page 141. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate x /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

—planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY
TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMIS-
SION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

Carnegie Natural Gas Company
Well Operator
By James C. Stephenson
Its Div. Supt.

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Company
Address PO Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5990 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 100 feet; salt, 1500 feet.

Approximate coal seam depths: Mapletown 505-512 Pittsburgh Is coal being mined in the area? Yes X / No _____ /

CASING AND TUBING PROGRAM 590-600

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		
Conductor	16			X		20'			Kinds
Fresh Water									
Coal	11-3/4		42	X			650	surface	Sizes
Intermediate	8-5/8		24	X			1775	surface	
Production	4-1/2	K-55	10.50	X			5990	3000'	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form Iv-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 4-5-83;
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____ By _____
Its _____