



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 600'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION WELL O17-1562
 ELEV. = 1047'

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) Stella R. Johnson
 R.P.E. 8993 L.S. _____

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

DATE APRIL 12, 19 83
 OPERATOR'S WELL NO. 3-1874
 API WELL NO. 47 017 3223
 STATE COUNTY PERMIT

PLACE SEAL HERE



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1000' WATER SHED BEVERLIN FORK
 DISTRICT MCGLELLAN COUNTY DODDRIDGE
 QUADRANGLE FOLSOM
 SURFACE OWNER K.H. SHEET
 OIL & GAS ROYALTY OWNER CLIF WILSON 8108
 LEASE NO. 9703
 ACREAGE 59
 LEASE ACREAGE 125

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 800 REGIS AVE. P.O. BOX 387
 PITTSBURGH, PA. 15236 MANNINGTON, W.VA. 26582

JUN 13 1983

6-6 Smithton-Flint-Sedalia (99)

D.A.M.



Date August 14, 1983
Operator's Well No. 3-1874
Farm H. L. Smith

State of West Virginia
Department of Mines
Oil and Gas Division

RECEIVED
SEP 14 1983

API No. 47 - 017 - 3223

RECEIVED

WELL OPERATOR'S REPORT

OIL & GAS DIVISION

DEPT. OF MINES AND/OR STIMULATING, OR PHYSICAL CHANGE

1983

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production x / Undergrnd Storage / Deep / Shallow x /)

LOCATION: Elevation: 1000' Watershed Beverlin Fork
District: McClellan County Doddridge Quadrangle Folsom

COMPANY Carnegie Natural Gas Co.

ADDRESS 800 Regis Ave., Pgh., PA. 15236
DESIGNATED AGENT J. C. Stephenson
ADDRESS Box 387, Mannington, WV 26582
SURFACE OWNER Kenneth H. Sheetz
ADDRESS R.D. 3, Rawlings, MD 21557
MINERAL RIGHTS OWNER Cliff & Opalt. Wilson
ADDRESS Box 518, Pennsboro, WV 26415
OIL AND GAS INSPECTOR FOR THIS WORK Steve
Casey ADDRESS Jane Lew, WV 26378
PERMIT ISSUED June 10, 1983
DRILLING COMMENCED July 6, 1983
DRILLING COMPLETED July 14, 1983

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

Casing Tubing Size 20-16 Cond.	Used in Drilling in Well	Left in Well	Cement fill up ft.
11 3/4	30	30	
9 5/8			
8 5/8	1914	1914	1914'
7			
5 1/2			
4 1/2		5637	950'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk

Depth 5990 feet

Depth of completed well 5985 feet Rotary x / Cable Tools

Water strata depth: Fresh feet; Salt feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson- Elk Pay zone depth 4966-5546 feet

Gas: Initial open flow 36 Mcf/d Oil: Initial open flow --- Bbl/d
Final open flow 103 Mcf/d Final open flow --- Bbl/d

Time of open flow between initial and final tests --- hours

Static rock pressure 2160 psig (surface measurement) after 77 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

SEP 11 1983

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Fracture by Dowell on July 30, 1983

1st Stage
Perf: ~~5544-46~~ w/ 3 holes; 5346-9 w/ 13 holes.
Treated with 12 Bbls acid; 300 Bbls foam; 25,000#
~~Acid~~ sand; 316,000 SCF N₂.
E 2nd Stage
Perf: 5075.5-80 w/10 holes; 4972.75-79.25 w/ 6 holes
Treated with 10 Bbls acid; 432 Bbls foam; 41,000# sand;
380,000 SCF N₂.
Benson

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Red Clay			0	5	
Red Rock			5	15	
Sand			15	30	
Red Rock			30	40	
Sand			40	69	
Red Rock			69	94	Damp @69'
Sand			94	102	
Shale			102	151	
Sand			151	300	
Shale			300	315	
Sand			315	360	
Shale			360	412	
Sand			412	428	
Shale			428	440	
Sand			440	640	
Shale			640	750	
Sand			750	782	
Shale			782	824	
Sand			824	847	
Shale			847	888	
Red Rock			888	920	
Shale			920	1070	
Sand			1070	1098	
Shale			1098	1470	
Sand			1470	1600	
Shale			1600	1660	
Sand			1660	1740	
Shale			1740	1775	
Sand			1775	1797	
Shale			1797	1892	
Limy Shale			1892	1925	
Lime, Big			1925	2045	
Sand, Big			2045	2143	
Shale			2143	2165	
Sand			2165	2196	
Shale			2196	2225	
Sand			2225	2256	
Shale			2256	2265	

(Attach separate sheets as necessary)

Carnegie Natural Gas Company
Well Operator

By: Kenneth H. Dewey

Date: August 14, 1983

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
minerals, encountered in the drilling of a well."

Sheet 3- H. L. Smith Well No. 3-1874
Permit No. 47-017-3223. McClellan District, Doddridge County, W. Va.

DETAILS OF INFORMED INTERESTS, FRANCHISES OR SPILLIAGES, PHYSICAL CHANGE, ETC.

[Handwritten signature]
SEP 7 1983

COAL GAS DIVISION
DEPT. OF MINES

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Sand	2265	2319	Including indication of all fresh and salt water, coal, oil and gas Benson, EIK
Shale	2319	2500	
Sand	2500	2545	
Shale	2545	2760	
Sand	2670	2780	
Shale	2780	3000	
Sand-Shale	3000	3900	
Shale	3900	5992	
Total Depth		5992	

(Attach separate sheets as necessary)

Carnegie Natural Gas Company
Well Operator

By: *Kenneth H. Dundy*
Date: August 14, 1983

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."

OCT 11 1983

APR 11 1983

C. I. & GAS DIVISION

DEPT. OF MINES

FORMATION NAME ALL SANDS	COLOR	TOP	BOTTOM	STEEL LINE MEASUREMENTS	WATER FOUND DEPTH NOTE IF FRESH OR SALT	OIL DEPTH FOUND	GAS DEPTH FOUND	REMARKS
SHALE		1600	1660					
SAND		1660	1740					
SHALE		1740	1775					
SAND		1775	1797					
SHALE		1797	1892					
LIMEY SHALE		1892	1925					
LIME		1925	2045					
SAND		2045	2143					
SHALE		2143	2165					
SAND		2165	2196					
SHALE		2196	2225					
SAND		2225	2256					
SHALE		2256	2265					
SAND		2265	2319					
SHALE		2319	2500					
SAND		2500	2545					
SHALE		2545	2760					
SAND		2760	2780					
SHALE		2780	3000					
SAND-SHALE		3000	3900					
SHALE		3900	5992					
TOTAL DEPTH			5992					

O/E = 36 HCFPD

TRIP 1
NO. 100

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs; "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) **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.**

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 _____