



MAP SHEET 59-S15,E1 FB.2131 PG. 34-36

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1" in 200'
 PROVEN SOURCE OF ELEVATION BM=RD. FK., EL. 932
BIG ISAAC TOPO 7.5

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) Danell M. Radcliffe
 R.P.E. _____ L.L.S. 741

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MARCH 23, 19 83
 OPERATOR'S WELL NO. 12819
 API WELL NO. _____
47 - 017 - 3214
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1059 WATER SHED BUCKEYE CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 Davis 15 DC
 SURFACE OWNER STONYBROOK INC. (SMITH LUMBER) ACREAGE 221a
 OIL & GAS ROYALTY OWNER W.H. EDDY (Now GEORGIA A. EDDY) LEASE ACREAGE 221a
 LEASE NO. 55445
 PROPOSED WORK: DRILL X 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 Benson ESTIMATED DEPTH 550' 6-6 Zinnia (145)
 WELL OPERATOR CON. GAS SUPPLY CORP. DESIGNATED AGENT L. J. TIMMS, JR.

MAY 16 1983

DOPD, 32 1A

RECEIVED

DEC 23 1983

OIL & GAS DIVISION
DEPT. OF MINES



IV-35
(Rev 8-81)

Date July 5, 1983
Operator's
Well No. 12819
Farm W. H. Eddy
API No. 47 - 017 - 3214

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 1059 Watershed Buckeye Creek
District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY Consolidated Gas Supply Corp.
ADDRESS 145 W. Main St., Clarksburg, WV
DESIGNATED AGENT L. Joseph Timms, Jr.
ADDRESS 145 W. Main St., Clarksburg, WV
SURFACE OWNER Stonybrook, Inc.
ADDRESS % Smith Lumber Co., West Union, WV
MINERAL RIGHTS OWNER Georgia A. Eddy
ADDRESS Rt. 1, Box 124, Morgantown, WV 26505
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey
ADDRESS Rt. 2, Box 232-D, Jane Lew, WV 26378
PERMIT ISSUED May 10, 1983
DRILLING COMMENCED June 13, 1983
DRILLING COMPLETED June 23, 1983
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11 3/4 / 13-10 7/8	140	140	To surface
9 5/8			
8 5/8	1981	1981	To surface
7			
5 1/2			
4 1/2	5426	5426	525 Sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4963-4974 feet
Depth of completed well 5501 feet Rotary / Cable Tools
Water strata depth: Fresh 80-360 feet; Salt feet
Coal seam depths: 381-383 Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Benson & Cedar Creek Pay zone depth see perf. feet
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow Bbl/d
Final open flow 216.5 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1650 psig (surface measurement) after 1 1/2 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)

1984

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

Perforated from 5295-5299 and 5325-5329 with 10 holes.
Fractured with 45,000# sand, 450 bbls. of water and 500 gals. HCL 10%.

Perforated from 4963-4974 with 12 holes.
Fractured with 45,000# sand, 400 bbls. of water and 400 gals. HCL 15%.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill		Brown	0	5	
Shale & Sand		Grey	5	198	
Sand		White	198	226	
Lime		Tan	226	230	
Sand		White	230	277	
Red Rock		Red	277	285	Gamma Ray Tops
Sand & Shale		Grey	285	316	Big Lime 2039 2088
Sand		White	316	371	Big Injun 2091 2192
Shale		Grey	371	381	Weir 2250 2320
Coal		Black	381	383	Gantz 2480 2484
Shale		Grey	383	411	Fifty Foot 2565 2609
Red Rock		Red	411	440	Gordon Stray 2679 - -
Sand & Shale		Grey	440	625	Gordon - - 2773
Sand		White	625	693	Fourth 2796 2814
Shale & Sand		Grey	693	785	Fourth A 2852 2867
Red Rock		Red	785	853	Fifth 3007 3018
Shale		Grey	853	867	Lower Fifth 3041 3073
Red Rock		Red	867	903	Warren 3353 3371
Sand & Shale		Grey	903	953	Upper Speechley 3544 3594
Shale & Red Rock		Grey & Red	953	1046	Speechley 3675 3730
Sand & Shale		Grey	1046	1110	Balltown 3826 3937
Red Rock		Red	1110	1123	Bradford 4426 4501
Sand & Shale		Grey	1123	1203	Riley 4695 4880
Red Rock		Red	1203	1222	Benson 4976 4997
Sand & Shale		Grey	1222	1506	Alexander 5257 5356
Shale & Red Rock		Grey & Red	1506	1600	Total Depth 5491
Sand & Shale		Grey	1600	1930	
Red Rock		Red	1930	1971	
Little Lime		Grey	1997	2012	
Shale		Grey	2012	2039	
Big Lime		Grey	2039	2158	
Shale		Grey	2158	2168	
Big Injun		Tan	2168	2200	
Shale & Sand		Grey	2200	2473	
Gantz		Tan	2473	2497	
Shale		Grey	2497	2686	
Sand		Tan	2686	2708	
Shale		Grey	2708	2751	

(Attach separate sheets as necessary)

Consolidated Gas Supply Corp.

Well Operator

By: J. L. Quinn Manager of Production

Date: 12-21-83 RL

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."

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

Pg 2, 017 3214

WELL LOG 12819

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Gordon	Tan		2751	2791	
Shale	Grey		2791	2801	
Fourth	Tan		2801	2823	
Shale	Grey		2823	2900	
Fifth	Tan/Grey		2900	2952	
Shale	Grey		2952	3342	
Warren	White		3342	3378	
Shale	Grey		3378	3516	
Upper Speechley	Light Grey		3516	3530	
Shale	Grey		3530	3627	
Speechley	White		3627	3644	
Shale	Grey		3644	3846	
Balltown	Brown/Tan		3846	3982	
Shale & Sand	Grey		3982	4285	
Bradford	Tan		4285	4308	
Shale	Grey		4308	4794	
Riley	Tan/Grey		4794	4814	
Shale	Grey		4814	4847	
Sand	Brown		4847	4876	
Shale	Grey		4876	4976	
Benson	Brown		4976	5019	
Shale	Grey		5019	5108	
Sand	Tan		5108	5214	
Shale	Grey		5214	5246	
Alexander	Brown/Grey		5246	5311	
Shale	Grey		5311	5501	T.D.

(Attach separate sheets as necessary)

Consolidated Gas Supply Corp.

Well Operator

By: J. F. Quinn Manager of Production

Date: 12-21-83

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 ~~minerals~~, encountered in the drilling of a well."

JAN 3 1984



1) Date: April 17, 1964, 1964
 2) Operator's Well No. 47
 3) API Well No. 47 State 017 County 3216 Permit

DRILLING CONTRACTOR:

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: _____ Watershed: _____
 District: _____ County: _____ Quadrangle: _____
- 6) WELL OPERATOR _____ Address _____
 11) DESIGNATED AGENT _____ Address _____
- 7) OIL & GAS ROYALTY OWNER _____ Address _____
 12) COAL OPERATOR _____ Address _____
- 8) SURFACE OWNER _____ Address _____
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name _____ Address _____
 Name _____ Address _____
- 9) FIELD SALE (IF MADE) TO: _____ Address _____
 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name _____ Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name _____ Address _____
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, _____
- 17) Estimated depth of completed well, _____ feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes / No /

20) 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		
Conductor									Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate									Perforations:
Production									Top Bottom
Tubing									
Liners									

21) EXTRACTION RIGHTS

- Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary: _____
 My Commission Expires _____

Signed: _____
 Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3216 Date _____ 1964

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. 10) 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.)

Permit expires January 10, 1964 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

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 _____