



Minimum Error of Closure 1' IN 200'
 Source of Elevation U.E. ROAD JCT. 51.5 RTS. 3018 AND 3016
 ELEVATION 1746'

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment
MAP SH. 438, SA. 525-529, F.B. 1457 DO. 23-31

Company CONSOLIDATED GAS SUPPLY CO.
 Address CLARKSBURG, WEST VA.
 Farm SOUTHWESTERN AT MEMPHIS
 Tract Acres 29.8 Lease No. 49113
 Well (Farm) No. 1485 Serial No. 11658
 Elevation (Split Level) 1485'
 Quadrangle PHILIPPI
 County BARBOUR District (PHILIPPI)
 Engineer William W. Forster
 Engineer's Registration No. 2397
 File No. Drawing No.
 Date MAY 17, 1973 Scale 1" = 40 Poles

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

WELL LOCATION MAP
 FILE NO. 659

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing. 47-001



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
MAY 19 1974

79-15
L.H.
(4)

Oil and Gas Division WELL RECORD

Quadrangle PITTTIPPT
Permit No. BAR-659

Rotary XXX Oil _____
Cable _____ Gas XXX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Consolidated Gas Supply Corporation
Address Starkshurg, W. Va.
Farm Southwestern @ Memphis Acres 59.5
Location (waters) Tygart Valley River
Well No. 1162 Elev. 11851
District Phillipi County Barbour
The surface of tract is owned in fee by _____

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size <u>220-16 "</u>	<u>201</u>	<u>201</u>	<u>To surface</u>
Cond. <u>18-10x 11"</u>	<u>2001</u>	<u>2001</u>	<u>To surface</u>
<u>9 5/8</u>			
<u>8 5/8</u>	<u>11991</u>	<u>11991</u>	<u>To surface</u>
<u>7</u>			
<u>5 1/2</u>			
<u>4 1/2</u>	<u>37621</u>	<u>37621</u>	<u>11 2 bags</u>
<u>3</u>			
<u>2</u>			
Liners Used			

Mineral rights are owned by _____
Address _____
Drilling Commenced 12-3-73
Drilling Completed 12-11-73
Initial open flow 182 M cu. ft. _____ bbls.
Final production 989 M cu. ft. per day _____ bbls.
Well open 11 days _____ hrs. before test 15100 RP.

Attach copy of cementing record.

Reason sand fractured with 950 hbl's water, 71,000 sand, 1000 gal 14% acid perforations: 36781 to 36861 with 21 holes

Coal was encountered at 131' 270' 350' Feet 131" 36" 60" Inches
Fresh water 151' 125' 250' 273' 371' Feet _____ Salt Water _____ None _____ Feet _____
Producing Sand HENSON Depth 3678-36861

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			<u>131</u>	<u>131</u>	Water	<u>151'</u> Fresh
Coal			<u>137</u>	<u>270</u>	Water	<u>270'</u> Fresh
Sand & Shale			<u>270</u>	<u>273</u>	Water	<u>273'</u> Fresh
Coal			<u>273</u>	<u>350</u>	Water	<u>350'</u> Fresh
Sand & Shale			<u>350</u>	<u>735</u>		
Maxton			<u>735</u>	<u>810</u>		
Tittle Lime			<u>810</u>	<u>995</u>		
Big Lime			<u>995</u>	<u>1116</u>		
Rjo Tr Jun			<u>1130</u>	<u>1165</u>		
Sand & Shale			<u>1165</u>	<u>1230</u>		
50' Sand			<u>1336</u>	<u>1370</u>	Gas	<u>1907-1911</u>
Sand & Shale			<u>1370</u>	<u>1940</u>		
5th Sand			<u>1940</u>	<u>1970</u>		
Sand & Shale			<u>1970</u>	<u>3365</u>	Gas	<u>3365'</u>
Riley			<u>3365</u>	<u>3380</u>		
Sand & Shale			<u>3380</u>	<u>3675</u>	Gas	<u>3675-3681</u>
<u>HENSON</u>			<u>3675</u>	<u>3688</u>		
Total Depth				<u>3863'</u>		

K.R. Measurement 91 above G.L.
Consolidated Gas Supply Corporation
115 West Main Street
Starkshurg, W. Va.

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
OCT 31 1973

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE October 29, 1973

Surface Owner Southwestern at Memphis Company Consolidated Gas Supply Corporation
Address Memphis, Tenn. 38101 Address Clarksburg, W. Va.

Mineral Owner Same Farm Southwestern at Memphis Acres 59.5

Address _____ Location (waters) Tygart Valley River

Coal Owner Same Well No. 11652 Elevation 1185'

Address _____ District Phillippi County Barbour

Coal Operator No. operations Quadrangle PHILIPPI

Address _____ Inspector Mr. Paul Thomas

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the Va. Code, the location is hereby approved for Drilling. This permit shall expire if operations have not commenced by 3-1-74.

INSPECTOR TO BE NOTIFIED
By 121 PH: 472-6418
Bucklannon
Circle 26201

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 8-29-69 by Southwestern at Memphis made to Consolidated Gas Sply. and recorded on the 27th day of September 1969 in Barbour County, Book 66 Page 538

XXXX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,
Steve Payne (Sign Name) Manager of Prod.
Well Operator

Address _____
of _____
Well Operator _____

115 West Main Street
City or TOWN _____
Clarksburg, W. Va.
State _____

Consolidated Gas Supply Corporation

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BACKSLIP BUND

Bar-659 PERMIT NUMBER
47-001

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXX DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME S. W. Jack Drilling Co. NAME R. F. Bayne
 ADDRESS Indiana, Pa. ADDRESS Bridgeport, W. Va.
 TELEPHONE TELEPHONE 623-3611
 ESTIMATED DEPTH OF COMPLETED WELL: 3900' ROTARY XXX CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Benson
 TYPE OF WELL: OIL GAS XX COMB. STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
XXXXX 16"	20'	20'	To surface
XXXXX 11"	600'	600'	To surface
9 - 5/8			
8 - 5/8	1500'	1500'	To surface
7			
5 1/2			
4 1/2	3900'	3900'	125 bags Perf. Top
3			
2			
Liners			Perf. Bottom Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 125' FEET SALT WATER None FEET
 APPROXIMATE COAL DEPTHS Not known
 IS COAL BEING MINED IN THE AREA? No BY WHOM?

TO DRILL:
 TO DRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title