

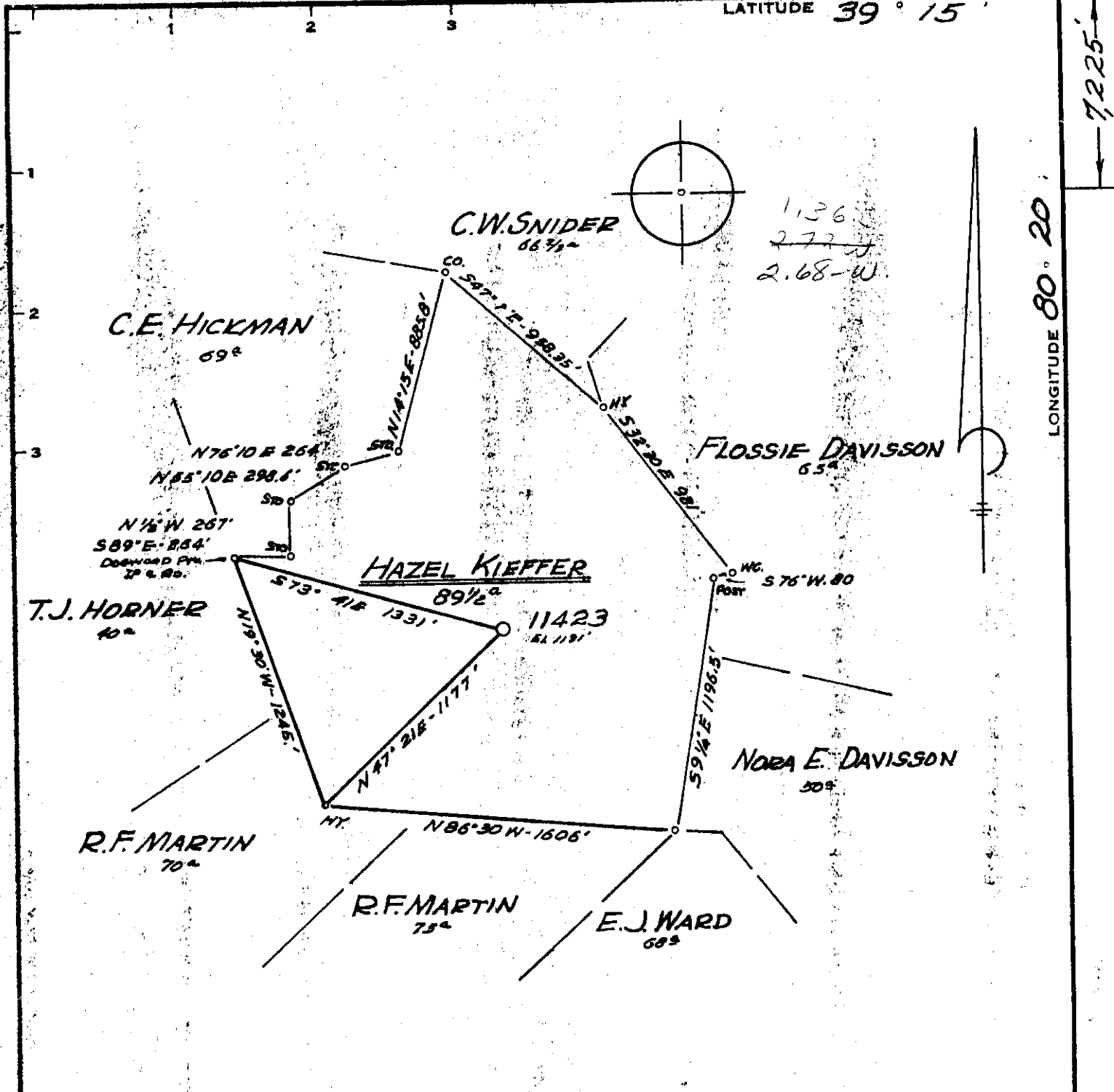
Minimum Error of Closure 1' in 200'
 Source of Elevation LEVELS from U.E. on DUCK CREEK EL 1095'
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
 CRC

REDRILL 6/2/77
 New Location
 Drill Deeper
 Abandonment

MAP SHEET 56 S 22 E 12 FB 1598 PG. 37-39

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W.VA.
 Farm HAZEL KIEFFER
 Tract _____ Acres 89 1/2 Lease No. 66860
 Well (Farm) No. _____ Serial No. 11423
 Elevation (Spirit Level) 1191' NC
 Quadrangle WESTON, W.VA., CC.
 County HARRISON District GRANT
 Engineer JACKSON M. JARVIS
 Engineer's Registration No. 2397
 File No. _____ Drawing No. _____
 Date 10-12-71 Scale 1" = 40 FEET

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Farr-597 RED
 + 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.
 JUN 21 1977
 — Denotes one inch spaces on border line of original tracing.
 47-033



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 CRC

- New Location
- Drill Deeper
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MAP SHEET 56 S 22 E 12 FB 1598 PG. 37-39

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W.VA.
 Farm HAZEL KIEFFER
 Tract _____ Acres 89 1/2 Lease No. 65860
 Well (Farm) No. _____ Serial No. 11423
 Elevation (Spirit Level) 1191'
 Quadrangle WESTON, W.VA. UNION
 County HARRISON District GRANT
 Engineer Jackson M. Jarvis
 Engineer's Registration No. 2397
 File No. _____ Drawing No. _____
 Date 10-12-71 Scale 1" = 40 POLES

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

WELL LOCATION MAP
 FILE NO. Har-597

+ 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.
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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

NOV 8 1977
CONSOLIDATED GAS SUPPLY CORPORATION
115 WEST MAIN STREET
CLARKSBURG, W. VA. 26301

WELL RECORD

Quadrangle WESTON
Permit No. HAR-597-RED.

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

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Hazel Kieffer Acres 89 1/2
Location (waters) Duck Creek
Well No. 11423 Elev. 1191'
District Grant County Harrison
The surface of tract is owned in fee by David L. Cross, et al
Address Weston, W. Va.
Mineral rights are owned by Same
Address _____

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13 1/2	323'	323'	To surface
9 5/8			
8 5/8	2002'	2002'	To surface
7			
5 1/2			
4 1/2	1497'	1497'	380 bags
3			
2			
Liners Used			

Re-Drilling Commenced 7-20-77
Re-Drilling Completed 9-7-77
Initial open flow _____ cu. ft. _____ bbls.
Final production 1970 cu. ft. per day _____ bbls.
Well open 25 hrs. before test 1320 RP.

Well treatment details:

Attach copy of cementing record.

Well fractured in Benson with 50,000# sand, 700 bbl water and 500 gal 15% acid
Perforations: (4347'-4352') with 15 holes

Fractured in Balltown with 50,000# sand, 750 bbl water and 750 gal 15% acid
Perforations: (3236'-3240') - 3255-3258' with 14 holes.

197 MCF

Coal was encountered at None Feet _____ Inches
Fresh water 45' Feet _____ Salt Water None Feet _____
Producing Sand Benson & Balltown Depth See perms

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
No change from original drilling log. See Permit No. HAR-597 & Form OG-8 for plugging.						
						Consolidated Gas Supply Corporation 115 West Main Street Clarksburg, W. Va.

(over)

* Indicates Electric Log tops in the remarks section.

RECEIVED

DEC 29 1971

OIL & GAS DIVISION
DEPT. OF MINES



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 4

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well **DRY**
(KIND)

Form OG-10

Quadrangle Weston, W. Va. CC

Permit No. HAR-597

WELL RECORD

Company Consolidated Gas Supply Corporation
Address Clarksburg, West Virginia
Farm Hazel Kieffer Acres 89.5
Location (waters) Duck Creek
Well No. 11423 Elev. 1191'
District Grant County Harrison
The surface of tract is owned in fee by David L. Cross
Address Weston, W. Va.
Mineral rights are owned by (Same as Above)
Address _____
Drilling commenced 12-07-71
Drilling completed 12-19-71
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
Dry Hole /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) NO
WELL FRACTURED (DETAILS) NO

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	326	326	
10			Size of
8 1/4	2002	2002	
6 3/4			Depth set
5 3/16			
4 1/2			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Attach copy of cementing record to surface
CASING CEMENTED 13 1/2 SIZE No. Ft. 12/71 Date
Amount of cement used (bags) 13"-170 sks; 8" 800 cu. ft.
Name of Service Co. _____
COAL WAS ENCOUNTERED AT NONE FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water 45 Feet Salt Water _____ Feet
Producing Sand Dry Hole Depth 4530'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil & shale			0	15			
Sand & shale			15	35			
Sand			35	60	water	45	
Shale & Red Rock			60	70			
Sand & Shale			70	185			
Shale & Red Rock			185	285			
Shale & Sand			285	320			
Red Rock			320	350			
Shale & Sand			350	830			
Sand			830	975			
Shale & sand			975	1020			
Sand			1020	1090			
Shale & sand			1090	1125			
Shale			1125	1190			
Sand			1190	1210			
Sand & Shale			1210	1240			
Sand			1240	1250			
Sand & shale			1250	1880			
Red Rock & shale			1280	1340			
Lime & shale			1340	1370			
Lime - Big lime			1370	1520			
Sand - Big lime			1520	1595			
Sand & Shale			1595	1820			
Gantz Sand			1810	1825			
Sandy Shale			1825	1840			
Sand & shale			1840	1900			
Sand 50			1900	1950			
Sand & shale			1950	1960			
Sand - 20'			1960	1980			

(over)

JAN 11 1972

Sand & shale
Shale & sand
5th Sand
Shale
Sand & shale
Sandy Shale
BENSON
Shale

1980
2000
2320
2350
2900
2935
4345
4365

2000
2320
2350
2900
2935
4345
4365
4530

RECEIVED

JUN - 2 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE June 1, 1977

Surface Owner David L. Cross, et al

Company Consolidated Gas Supply Corporation

Address 532 Glenn Ave., Weston, WV

Address Clarksburg, W. Va.

Mineral Owner Same

Farm Hazel Kieffer Acres 89 1/2

Address _____

Location (waters) Duck Creek

Coal Owner None

Well No. 11423 Elevation 1191'

Address _____

District Grant County Harrison

Coal Operator None

Quadrangle WESTON

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for redrilling. This permit shall expire if operations have not commenced by 10-2-77.

INSPECTOR

TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street

PHONE 622-3871

Robert T. [Signature]
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 Redrill 3-28-56 1956 by Hazel Kieffer made to Hope Natural Gas Co. and recorded on the 14th day of September 1956, in _____ County, Book 783 Page 110

_____NEW WELL _____DRILL DEEPER _____XX 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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

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

Consolidated Gas Supply Corporation
Street
145 West Main Street
City or Town
Clarksburg, W. Va.
State

*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.

BLANKET BOND

HAR-597-RED. PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

47-033

Signed by W. B. Payne

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

PROPOSED WORK ORDER TO XX Re-DRILL DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Chisler Brothers NAME _____
 ADDRESS Pentress, W. Va. ADDRESS _____
 TELEPHONE --- TELEPHONE _____
 ESTIMATED DEPTH OF COMPLETED WELL: 4521' ROTARY _____ CABLE TOOLS XX _____
 PROPOSED GEOLOGICAL FORMATION: PensOn
 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.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2	<u>4521'</u>	<u>4521'</u>	<u>125 Bags</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 45' FEET SALT WATER None FEET
 APPROXIMATE COAL DEPTHS See original Drlg Log.
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

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