

New Location
 Drill Deeper
 Abandonment
 11/9/76

Minimum Error of Closure: 1" IN 2500'
 Source of Elevation: U.S.G.S. BM -- COR. CONCRETE HEADWALL ELEV. 1161'
 "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." *William G. Phillips*

Company KEYSTONE GAS COMPANY
 Address MELLON BANK BLDG. Canonsburg, PA.
 Farm E. CLAUDE HOARD
 Tract _____ Acres 72 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1199.7' *NC*
 Quadrangle MORGANTOWN NORTH -- W.VA. - PA. 1:24000
 County MONONGALIA District UNION
 Engineer WILLIAM G. PHILLIPS
 Engineer's Registration No. W.VA. 163
 File No. _____ Drawing No. 191-A
 Date OCT. 1975 Scale 1" = 400'

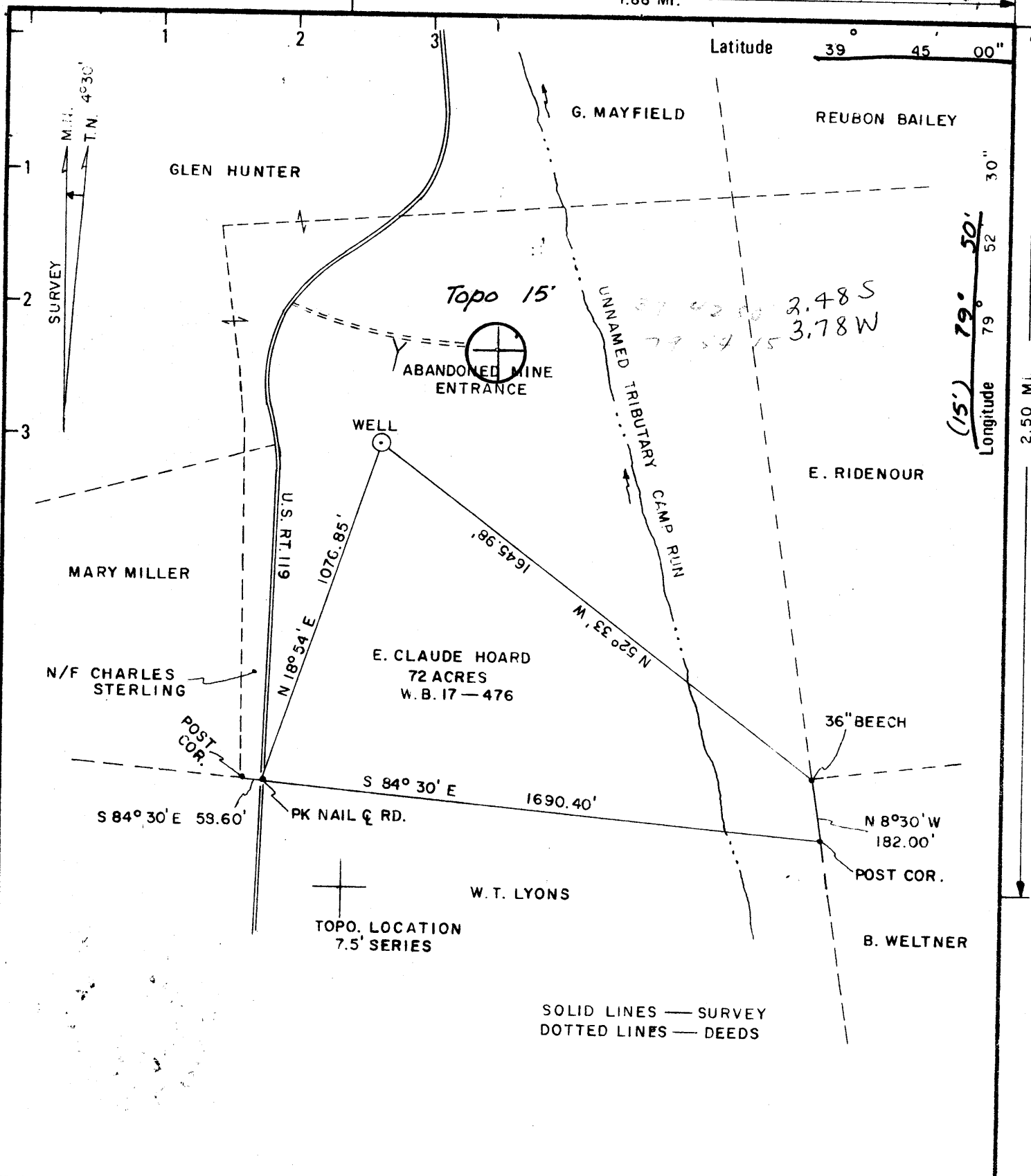
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. MON-346-PP

+ 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.

47-061

1.88 MI.



SOLID LINES — SURVEY
 DOTTED LINES — DEEDS

New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure
 Source of Elevation

1" IN 2500'
 U.S.G.S. BM — COR. CONCRETE HEADWALL
 ELEV. 1161'

"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." *William G. Phillips*

Company KEYSTONE GAS COMPANY
 Address MELLON BANK BLDG. *Canonsburg*, PA.
 Farm E. CLAUDE HOARD
 Tract _____ Acres 72 Lease No. _____
 Well (Farm) No. 1 Serial No. NC
 Elevation (Spirit Level) 1188.7' *MGTN 15'*
 Quadrangle MORGANTOWN NORTH — W.VA. — PA. 1:24000
 County MONONGALIA District UNION
 Engineer WILLIAM G. PHILLIPS
 Engineer's Registration No. W.VA. 163
 File No. _____ Drawing No. 191-A
 Date OCT. 1975 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. MON-346

+ 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.

47-061



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NOV 18 1976

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
PARTIAL
WELL RECORD 2

OIL & GAS DIVISION
DEPARTMENT OF MINES

Incomplete
See next page

Quadrangle Morgantown, N.

Permit No. MON-346
47-061

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

Company Keystone Gas Company
Address Canonsburg, PA 15317
Farm E. Claude Hoard Acres 72
Location (waters) Camp Run
Well No. 1 Elev. 1188.7
District Union County Monongalia
The surface of tract is owned in fee by E. Claude Hoard
Address Morgantown, WV
Mineral rights are owned by E. Claude Hoard
Address Same
Drilling Commenced 12-12-75
Drilling Completed 10-22-76
Initial open flow _____ cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	1391	1391	
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Notched open hole @ 2604', frac 2598 - 2610' thru 4 1/2" on packer
(450 bbl, water, 6700 # sd.)

Well to be plugged back to 1800'.

Coal was encountered at 74', 905' Feet _____ Inches
Fresh water 78', 915' Feet _____ Salt Water -- Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
soil		soft	0	5		
sand	white	hard	5	74		
coal	black	soft	74	77		
sand & shale	gray	med	77	240	wet @ 78'	
shale	gray	soft	240	420		
sand	gray	med	420	483		
sand & shale	gray	med	483	905		
coal	black	soft	905	911	1/2" stream W @ 915'	
sand & shale	gray & wh	med	911	1007		
sand	white	med	1007	1100		
shale	gray	soft	1100	1130		
sand & shale	gray	med	1130	1203		
redrock		med	1203	1230		
sand & shale	gray	med	1230	1300		
lime	gray	hard	1300	1315		* little lime
redrock & shells		med	1315	1338		
lime	white	hard	1338	1410		* Big Lime
sand	gray	hard	1410	1606	SSG	* Big Injun
shale	gray	soft	1606	1650		
sand	gray	med	1650	1764	SSG	* Squaw
shale	gray	soft	1764	1924		
sand	gray	med	1924	1936		* Berea
shale & shells	gray	soft	1936	1998		
sand & shale	gray	med	1998	2112		* Hundred Foot

(over)

* Indicates Electric Log tops in the remarks section.

NOV 18 1976

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
shale & shells	gry & red	med	2112	2480		
sand	gray	hard	2480	2530		* Bayard
shale	red & gray	soft	2530	2568		
sand	gray	med	2568	2614		* <u>Elizabeth</u>
shale	gray	soft	2614	2681		Total Depth

NOTE: very slight temperature log anomalies @ 1960', 2225' and 2525'.

Date November 5, 1976

APPROVED Keystone Gas Company, Owner

By *SLD*
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle Morgantown, N.

Permit No. MON-346
47-061

Company Keystone Gas Company
Address Canonsburg, PA 15317
Farm E. Claude Hoard Acres 72
Location (waters) Camp Run
Well No. 1 Elev. 1188.7
District Union County Monongalia
The surface of tract is owned in fee by E. Claude Hoard
Address Morgantown, WV
Mineral rights are owned by E. Claude Hoard
Address Same
Drilling Commenced 12/12/75
Drilling Completed 10/22/76
Initial open flow TSTM cu. ft. _____ bbls.
Final production 268 M. cu. ft. per day _____ bbls.
Well open 4 hrs. before test 490# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	1391	1391	cement to surf
7			
5 1/2			
4 1/2	1774	1774	100 cu. ft.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Notched open hole @ 2604', frac 2598-2610' thru 4 1/2" on packer, gas TSTM
Well plugged back to 1800', ran 1774' 4 1/2" casing, cemented.
Frac 1661-1733' thru 16 perfs in 4 1/2" casing (405 BW, 11760# sand)
Frac 1567-1591' thru 16 perfs in 4 1/2" casing (505 BW, 19635# sand)

Coal was encountered at 74', 905' Feet _____ Inches _____
Fresh water 78', 915' Feet _____ Salt Water _____ Feet _____
Producing Sand Squaw and Big Injun Depth 1661-1733 & 1567-91'
Sq Inj

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
See partial well record submitted November 5, 1976 for complete report of formations.						

(over)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 31 1975

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner E. Claude Hoard
Address Morgantown, W. Va.
Mineral Owner E. Claude Hoard
Wilda H. Noel
Address Morgantown, W. Va.
Coal Owner E. Claude Hoard
Wilda H. Noel
Address _____
Coal Operator _____
Address _____

DATE October 30, 1975
Company Keystone Gas Company
Address Canonsburg, Pennsylvania
Farm E. Claude Hoard Acres 72
Location (waters) Camp Run
Well No. 1 Elevation 1188.7
District Union County Monongalia
Quadrangle Morgantown, North

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 drilling. This permit shall expire if
operations have not commenced by 3-1-76

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Wm. Blaser
Salmon
PH: 363-9105 ADDRESS Calfax, W. Va.

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 18 December 1969 by E. Claude Hoard made to Keystone Gas Company and recorded on the 17th day of October 1975, in Monongalia County, Book BK 767 Page PG 310

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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Very truly yours,

(Sign Name) John E. Dauph
Well Operator

Address
of
Well Operator

Mellon Bank Building
Street

Canonsburg, Pennsylvania 15317
City or Town

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

Mon-346 PERMIT NUMBER
47-061

