

FORMER HOPE WELL NO 2958

- Fracture....
- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Source of Elevation C.G.S. COMP. ELEV. 1007'

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.

Minimum accuracy, one part in 200

Company	EQUITABLE GAS CO. W.VA. DIV.	
Address	PITTSBURGH, PA. 15219	
Farm	ASIA DELL CUMBERLEDGE	
Tract	Acres 76	Lease No. 26165
Well (Farm) No.	Serial No. 5477	
Elevation (Spirit Level)	1007'	
Quadrangle	WEST UNION 3E21 EC	
County	TYLER	District M'ELROY
Engineer	J. A. McMillan	
Engineer's Registration No.	105 L.L.S.	
File No.	222/86	Drawing No.
Date	10-20-72	Scale 1" = 500'

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

**WELL LOCATION MAP**  
FILE NO. Inf-454-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.

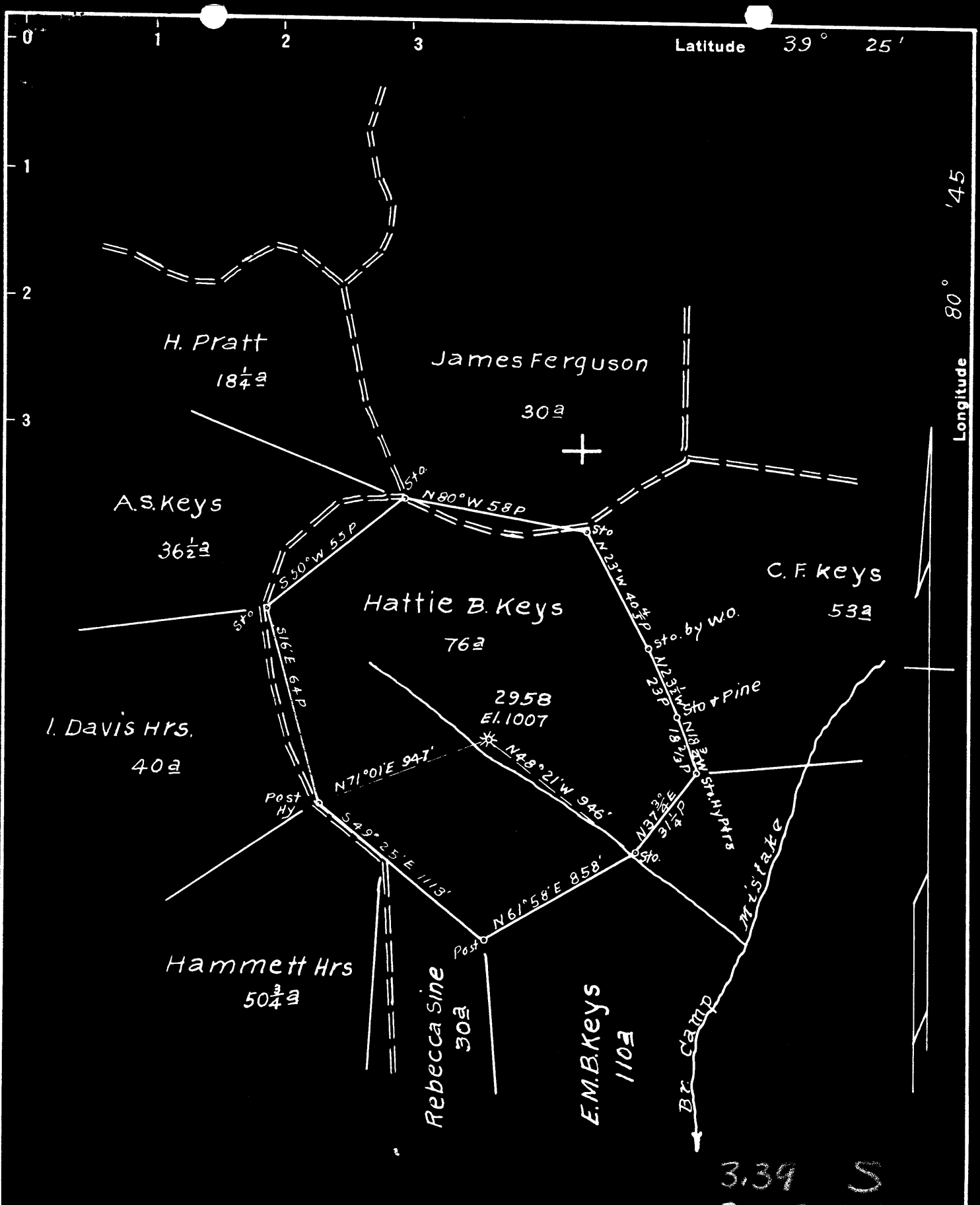
- Denotes one inch spaces on border line of original tracing.

OLW0 9-0 Wilbur (92)

JAN 15 1973

Latitude 39° 25'

Longitude 80° 45'



New Location   
 Drill Deeper   
 Abandonment

Map Sh. 53 S6 W10-11 FB. 932 P-20-21

Company	Hope Natural Gas Co.			
Address	Clarksburg, W.Va.			
Farm	Hattie B. Keys			
Tract	Acres	76	Lease No.	4528
Well (Farm) No.			Serial No.	2958
Elevation (Spirit Level)	1007'			
Quadrangle	West Union			
County	Tyler		District	MSEIROY
Engineer	Wm Bowers			
Engineer's Registration No.	900			
File No.			Drawing No.	
Date	10-13-49		Scale	1"=40 P

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

**WELL LOCATION MAP**  
 FILE NO. JYL-602-A

+ 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.



RECEIVED

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**

**WELL RECORD**

Rotary XX Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage ZZ \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Quadrangle West Union SE2.1

Permit No. TYL-454-Red

Company Equitable Gas  
Address Pittsburgh, Pa. 15219  
Farm Asia Dell Cumberledge Acres 76  
Location (waters) Camp Mistake Run  
Well No. 5477 Elev 1007  
District McElroy County Tyler  
The surface of tract is owned in fee by \_\_\_\_\_  
Asia Dell Cumberledge  
Address 320 Front St., West Union, W. Va.  
Mineral rights are owned by Same as surface  
Address \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13- <del>XX</del>	34	34	20 sks. to surf.
9 5/8			
8 5/8 *			
7	1860	1860	670 sks. to surf.
5 1/2			
4 1/2	1912	1912	25 sks. to 1660 gel to surface
3			
2			
Liners Used			

Re-Drilling Commenced 4-10-73  
Re-Drilling Completed 8-22-73  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Well treatment details:

Attach copy of cementing record.

\* Old 8" in hole from 960 to 1125

Coal was encountered at 612 - 616 Feet \_\_\_\_\_ Inches  
Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Big Injun storage Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Pittsburgh Coal			612	616		Driller Est.
Big Dunkard Sand			1040	1064		
Gas Sand			1117	1140		
Salt Sand			1217	1630		
Maxton Sand			1688	1734		
Little Lime			1806	1828		
Big Lime			1839	1894		
<u>Big Injun Sand</u>			1900	2042		
Weir Sand			2200	2300		
Gantz Sand			2406	2410		
Gordon Sand			2610	2630		
Redrilled to				2678		
Cement Plug Back to				1952		
Completed Total Depth				1952		
Note: Gamma Ray Survey from			surface	to	2677	

(over)

\* Indicates Electric Log tops in the remarks section.

OCT 5 1973



534

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. 600-A -> 454

Oil Gas Well (KIND)

Company Hope Natural Gas Company.  
 Address 445 West Main St. Clarksburg, W. Va.  
 Farm Hattie B. Keys Acres 76  
 Location (waters) \_\_\_\_\_  
 Well No. 2958 Elev. 1007  
 District Moalroy County Tyler  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Drilling commenced May 16, 1913  
 Drilling completed June 27, 1913  
 Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water none recorded feet \_\_\_\_\_ feet  
 Salt water none recorded feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	<u>253</u>	<u>Pulled</u>	Size of
8 1/4	<u>1155</u>	<u>1155</u>	
6 1/2	<u>1887</u>	<u>1887</u>	Depth set
5 3/16			
3			Perf. top
2	<u>2645</u>	<u>2645</u>	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED NOT SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT 125 FEET 60 INCHES  
612 FEET 48 INCHES FEET INCHES  
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Coal			125	130			
Pittsburgh Coal			612	616			
Little Dunkard			1055	1072			
Big Dunkard			1135	1175			
First Salt			1525	1540			
Second Salt			1612	1650			
Maxon			1700	1750			
Little Lime			1805	1820			
Pencil cave			1820	1840			
Big Lime			1840	1920			
Big Injun			1920	2050	gas	1975	
Gantz			2200	2252			
Fifty foot			2260	2296			
Gordon			2613	2622	gas	2618	
Drilled to				2886			
Filled back to				2645			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

Date October 17, 1949., 19

APPROVED Hope Natural Gas Company., Own

By \_\_\_\_\_

(Title)

*JWA*

Hattie E. Keys. NO. 2958 WELL.

Gal. No. 485 (313)

McElroy District, Tyler County, W. Va.

Hope Natural Gas Co.

Elevation, 1015'.

Gas well.

On Camp Mistake Run.

Shown on 7-E, West Union Quadrangle.

Comp. 6-27-13

70516

now: 602A

454





RECEIVED

JAN 8 1973

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL & GAS  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 5, 1973

Surface Owner Asia Dell Cumberledge, Agent  
Address 320 Front St., West Union, W. Va. 26456  
Mineral Owner Same as above  
Address \_\_\_\_\_  
Coal Owner Same as above  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company Equitable Gas  
Address 420 Blvd. of the Allies, Pgh., Pa. 15211  
Farm Asia Dell Cumberledge Acres 76  
Location (waters) Camp Mistkae Run  
Well No. 5477 Elevation 1007  
District McElroy County Tyler  
Quadrangle West Union SE 2.1

INSPECTOR TO BE NOTIFIED Mr. Arthur  
By 296  
Hundred PH: 775-5611  
W.V. 20575

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 5-8-73.

[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 Jan. 28 1972 by Asia Dell Cumberledge made to Equitable Gas Co. and recorded on the 8th day of May 1972, in Tyler County, Book 192 Page 305

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.

Very truly yours, A. M. Linger  
(Sign Name) Equitable Gas Co.  
Well Operator  
420 Blvd. of the Allies  
Street  
Pittsburgh  
City or Town  
Pa. 15219  
State

Address  
of  
Well Operator

\*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

Tyl-454-Red PERMIT NUMBER  
[Signature]

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

PROPOSED WORK ORDER TO X RE - DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME H. E. Gardner, Div. Supt. \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS Box 1550, Clarksburg, W. Va. 26301 \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304)624-6576 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 1900 \_\_\_\_\_ ROTARY XX \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Big Injun \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE XX \_\_\_\_\_ 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	1154	1154	Cem. to surface
8 - 5/8			
7			
5 1/2	1900	1900	Cem. to surface
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS No mineable coal \_\_\_\_\_  
 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