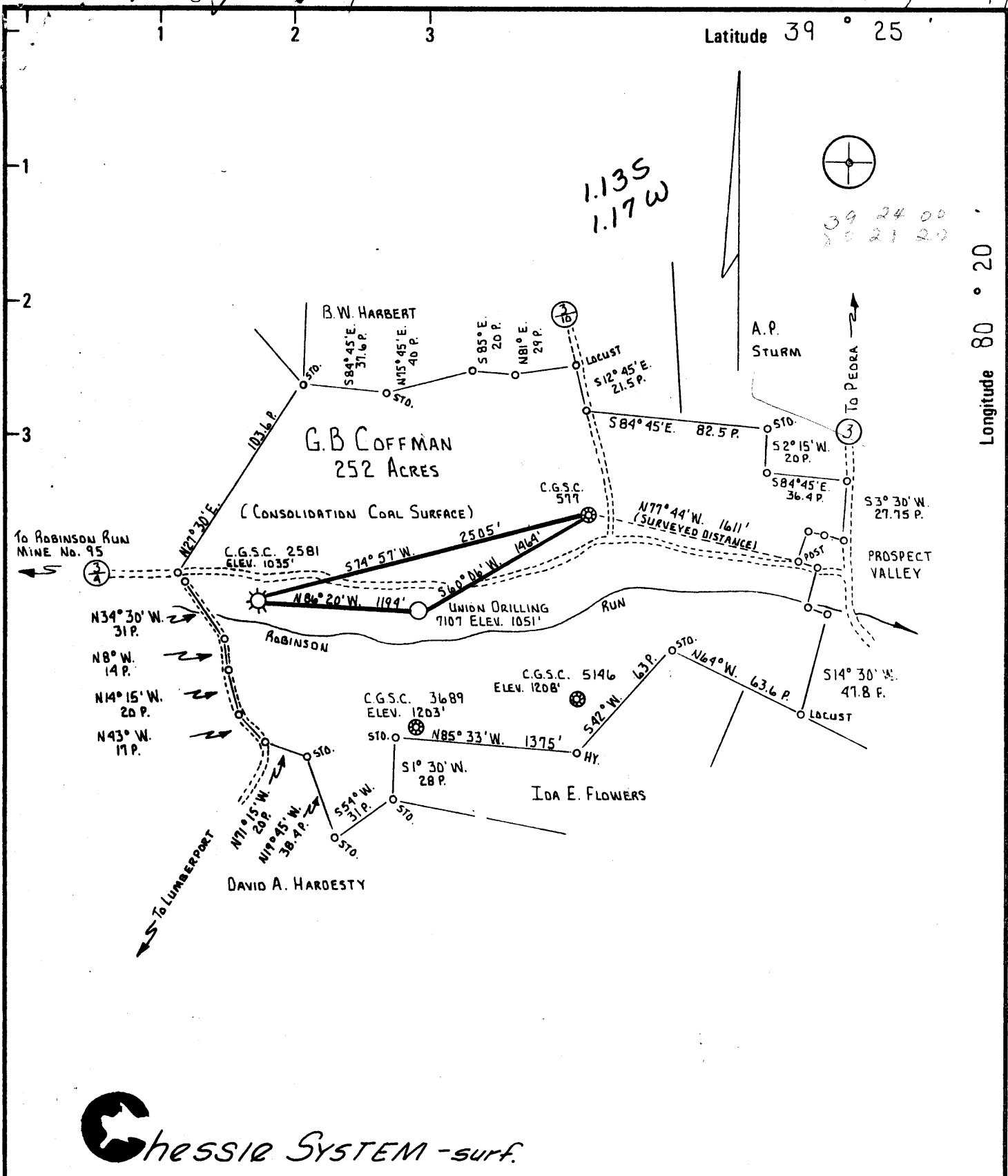


Latitude 39° 25'



Longitude 80° 20'

Chessie SYSTEM - surf.

New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/>	Minimum Error of Closure <u>ONE PART IN 200</u> Source of Elevation <u>C.G.S.C. WELL 2581 ELEV. 1035'</u> "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."
---	---

Company	<u>UNION DRILLING INC.</u>
Address	<u>BUCKHANNON, WEST VIRGINIA</u>
Farm	<u>G.B. COFFMAN</u>
Tract	<u>Acres 252</u> Lease No. <u>14197</u>
Well (Farm) No.	<u>5</u> Serial No. <u>7107</u>
Elevation (Spirit Level)	<u>1051'</u>
Quadrangle	<u>CLARKSBURG</u> <u>C</u>
County	<u>HARRISON</u> District <u>EAGLE</u>
Engineer	<u>Daniel L. Wheeler</u>
Engineer's Registration No.	<u>530 L.L.S.</u>
File No.	<u>B-810</u> Drawing No. _____
Date	<u>1-20-77</u> Scale <u>1" = 1000'</u>

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

WELL LOCATION MAP
 FILE NO. HAR-1023

+ 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 - 033

PSP



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 Clarksburg

Permit No. HAR-1023
47-033

Company UNION DRILLING, INC.
 Address P.O. Drawer 40, Buckhannon, WV 26201
 Farm G. B. Coffman Acres 252
 Location (waters) Robinson's Run
 Well No. 7107 Elev. 1051'
 District Eagle County Harrison
 The surface of tract is owned in fee by _____
Baltimore & Ohio Railroad, Chessie System
 Address Engineering Dept., Grafton, WV
 Mineral rights are owned by Jessie Hardesty, Agent
Route #1 Address Shinnston, WV 26431
 Drilling Commenced 3/6/77
 Drilling Completed 3/11/77
 Initial open flow 133,000 cu. ft. _____ bbls.
 Final production 855,000 cu. ft. per day _____ bbls.
 Well open 72 hrs. before test 200# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 13 5/8	30'	30'	
9 5/8			
8 5/8	883.01	883.01	250 sks.
7			
5 1/2			
4 1/2	3314.08	3314.08	255 sks.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

3/17/77 Dowell - 3 stage water frac

Balltown - 554 BBL - 30,000# sand

Bayard and Elizabeth - 590 BBL - 25,000# sand

Gordon - 474 BBL - 25,000# sand

Coal was encountered at 51/53 Feet 24" Inches
 Fresh water @ 15' 3" stream & @ Feet 960" 1/2" stream Salt Water _____ Feet _____
 Producing Sand Balltown 3190/3268 Bayard & Elizabeth _____ Depth _____
Gordon 1866/1942 2233/2360

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	5		
Sand and Shale			5	51		
Coal			51	53		
Sand and Shale			53	94		
Red Rock			94	98		
Sand and Shale			98	130		
Shale and Red Rock			130	232		
Sand			232	240		
Sand and Shale			240	245		
Shale			245	323		
Sand			323	333		
Sand and Shale			333	1028		
Red Rock			1028	1133		
Shale			1133	1232		
Sand and Shale			1232	1266		
Little Lime			1266	1273		
Sand and Shale			1273	1276		
Big Lime			1276	1354		
Injun Sand			1354	1411		
Shale			1411	1550		
Sand and Shale			1550	1866		
Gordon			1866	1942		
Sand and Shale and Red Rock			1942	2012		
Sand and Shale			2012	2067		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale and Red Rock			2067	2108		
Sand			2108	2136		
Sand and Shale			2136	2142		
Sand			2142	2181		
Sand and Shale			2181	2233		
Bayard			2233	2262		
Sand and Shale			2262	2314		
Elizabeth			2314	2360		
Sand and Shale			2360	3190		
Balltown			3190	3268		
Sand and Shale			3268	<u>TD 3487</u>		

Date June 14, 19 77

APPROVED UNION DRILLING, INC. Owner

By John M. Williams
 John M. Williams (Title) Vice President



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
JAN 25 1977

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

DATE January 24, 1977

Surface Owner Baltimore & Ohio Railroad Co.
Address Chessie System, Engineering Dept.,
Grafton, WV
Mineral Owner _____
Address See Attached Sheet
Coal Owner Protestant Episcopal Church of WV
Address Bishop Atkinson, 1608 VA. St.
E. Charleston, WV 25311
Coal Operator _____
Address _____

Company UNION DRILLING, INC.
Address P. O. Drawer 40, Buckhannon, WV 26201
Farm G. B. Coffman Acres 252
Location (waters) Robinson Run
Well No. (-) 7107 (5) Elevation 1051'
District Eagle County Harrison
Quadrangle Clarksburg

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 5-25-77.

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS 321 Beech St., Clarksburg, WV
PHONE (304) 622-3871


Deputy Director - Oil & Gas Division

GENTLEMEN: CONS. lease # 14197

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 January 8, 1909 by G. B. Coffman & Rosa Coffman (wife) made to Hope Natural Gas & assigned to Union Drilling and recorded on the 28th day of January 1909 in Harrison County, Book 176 Page 179

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

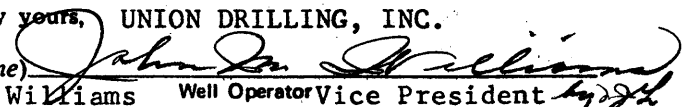
The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

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 this day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

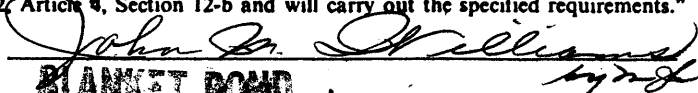
PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

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

Very truly yours, UNION DRILLING, INC.
(Sign Name) 
John M. Williams Well Operator Vice President
Address of Well Operator
P. O. Drawer 40 Street
Buckhannon City or Town
West Virginia 26201 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.

HAR-1023 PERMIT NUMBER
47-033

"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."
Signed by 
BLANKET ROAD

UNION DRILLING, INC.
P. O. Drawer 40
Buckhannon, WV 26201

RECEIVED

JAN 26 1977

Oil & Gas Divison
Farm: G. B. Coffman Well #7107
Eagle District
Harrison County
Clarksburg Quadrangle

Oil & Gas Owners

Jessie Hardesty Agent 4/12
Route #1
Shinnston, WV 26431

Charles King 3/12
Genevieve Currey 1/18
Doris Probasco 1/18
James H. Hardesty 1/18
John Edward Nay 2/48
Judith Ann Long 2/48
Linda Stewart 2/48
Richard Dale Nay 2/48