

Minimum Error of Closure 1 in 200'

Source of Elevation Elev. Henderson No. 2 - 1152

- Fracture
- New Location
- Drill Deeper
- Abandonment

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.

Signed: [Signature]
Squares: N S E W

Map No. _____

Company Justin M. Henderson

Address West Union, W. Va., 26456

Farm Bluestone (Surf)

Tract Lesman Maxwell, Hrs., et al. (Min.)
1500 of

Acres 3150 Lease No. _____

Well (Farm) No. Herhouse 1 Serial No. _____

Elevation (Spirit Level) 972'

Quadrangle Holbrook NE

County Doddridge District Southwest

Engineer [Signature]

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date Dec. 1, 1972 Scale 1" = 2000'

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

WELL LOCATION MAP

FILE NO. DODD-1702-
FRAC.

⊕ 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.

47-017



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JAN 11 1973

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

OIL & GAS DEPT. Rotary
DEPT. OF MINES Spudder
Cable Tools
Storage

Quadrangle Holbrook - NE

Permit No. Dodd - 1702

WELL RECORD /

Oil or Gas Well Gas & Oil
(KIND)

Company Justin M. Henderson
Address West Union, W. Va.
Farm Bluestone Acres 1500 of 3150 Size
Location (waters) Bluestone Ck. - Scalehouse Run 16
Well No. Hanhouse # 1 Elev. 1966 13
District Southwest County Doddridge 10 3/4 225' 225'
The surface of tract is owned in fee by Justin M. Henderson 1/4 & 5/8 1010'
Henderson Address West Union, W. Va. 3/4 7" 1741' 1741'
Mineral rights are owned by Lewis Maxwell heirs 5 3/16 4 1/2
Address _____
Drilling commenced November 1, 1972 3
Drilling completed December 4, 1972 2 1663.9
Date Shot 12/14/72 From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 750,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.

Casing and Tubing	Used in Drilling	Left in Well	Packers
			Kind of Packer
			Size of
			Depth set
			Perf. top 1310'
			Perf. bottom 1340'
			Perf. top 1656'
			Perf. bottom 1670'

Attach copy of cementing record.
CASING CEMENTED 10" SIZE 2 3/8 No. Ft. 1741' Date 12/6/72
Amount of cement used (bags) 145
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT NONE FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) 1235 barrels of water
340 CWT. of sand
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 700,000 Cu. Ft. & 4 bbls
ROCK PRESSURE AFTER TREATMENT 500 HOURS 24 hrs.
Fresh Water 45' & 76' Feet Salt Water _____ Feet
Producing Sand Salt and KCl Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0'	10'			
Red Rock			10	20			
Shale			20	30			
Red Rock			30	40			
Sand			40	50	Water	45'	
Red Rock			50	74			
Sand			74	113	Water	76'	
Slate			113	150			
Red Rock			150	178			
Slate			178	190			
Sand			190	197			
Red Rock			197	200			
Shale	Gray		200	336			
Red Rock			336	350			
Shale	Gray		350	384			
Sand			384	390			
Red Rock			390	505			
Lime			505	520			
Shale	Gray		520	540			
Sand			540	555			
Shale			555	596			
Red Rock			596	625			
Slate			625	730			
Lime			730	760			
Slate			760	770			
Sand			770	783			
Red Rock			783	788			
Slate			788	805			
Sand			805	812			

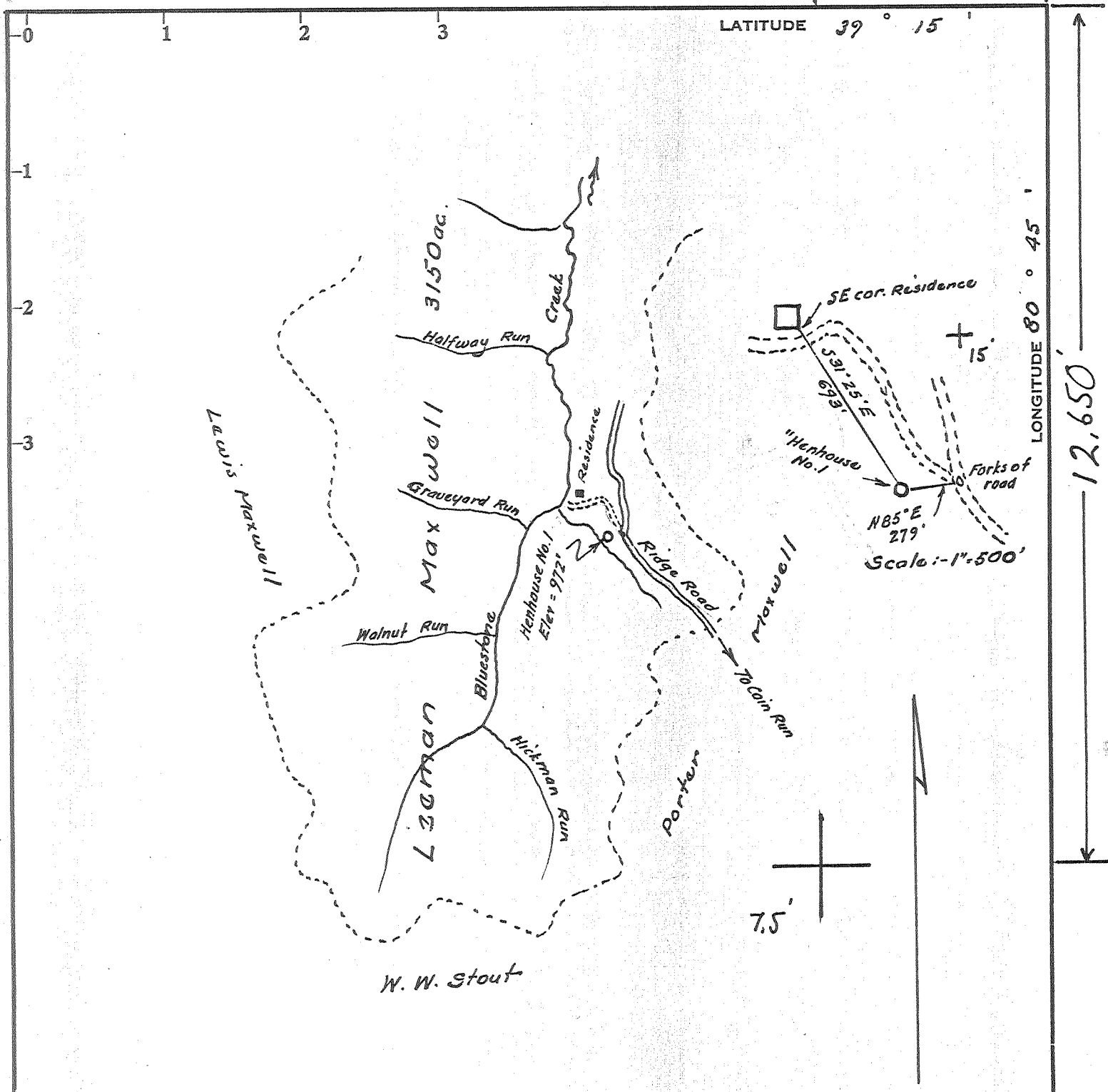
Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			812	820			
Slate			820	895			
Lime			895	908			
Red Rock			908	911			
Gray Shale	Gray		911	990			
Slate			990	1030			
Sand			1030	1125	Water	1090	
Slate			1125	1252			
Sand			1252	1245			
Slate			1245	1280			
Sand			1280	1296			
Slate			1296	1300	Gas	1310	
Sand			1300	1370	Gas	1310	
Slate			1370	1440			
Rock	Pink		1440	1445			
Slate			1445	1450			
Red Rock			1450	1455			
Slate			1455	1525			
Little Lime			1525	1578			
Pencil Cave			1578	1580			
Big Lime			1580	1660			
Ing. Sand	Keener		1660	1670	Gas	1660	
Lime			1670	1708			
Sand	Injun		1708	1715	Gas		
Slate			1715	1741			

Date Jan 11 19 11

APPROVED Walter M. Henderson Owner

By W.M.H. (Title)

1/13/350 EN



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

Signed: *W. Stout*
 Squares: N S E W

Map No. _____

Company Justin M. Henderson 377

Address West Union, W. Va., 26456

Farm Bluestone (Surf)

Tract Leaman Maxwell, Hrs., et al. (Min.)
1500 of
 Acres 3150 Lease No. _____

Well (Farm) No. Henhouse 1 Serial No. _____

Elevation (Spirit Level) 972'

Quadrangle Holbrook 15' / Oxford 7.5'

County Doddridge District Southwest

Engineer *W. Stout*

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date Dec. 1, 1972 Scale 1" = 2000'

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

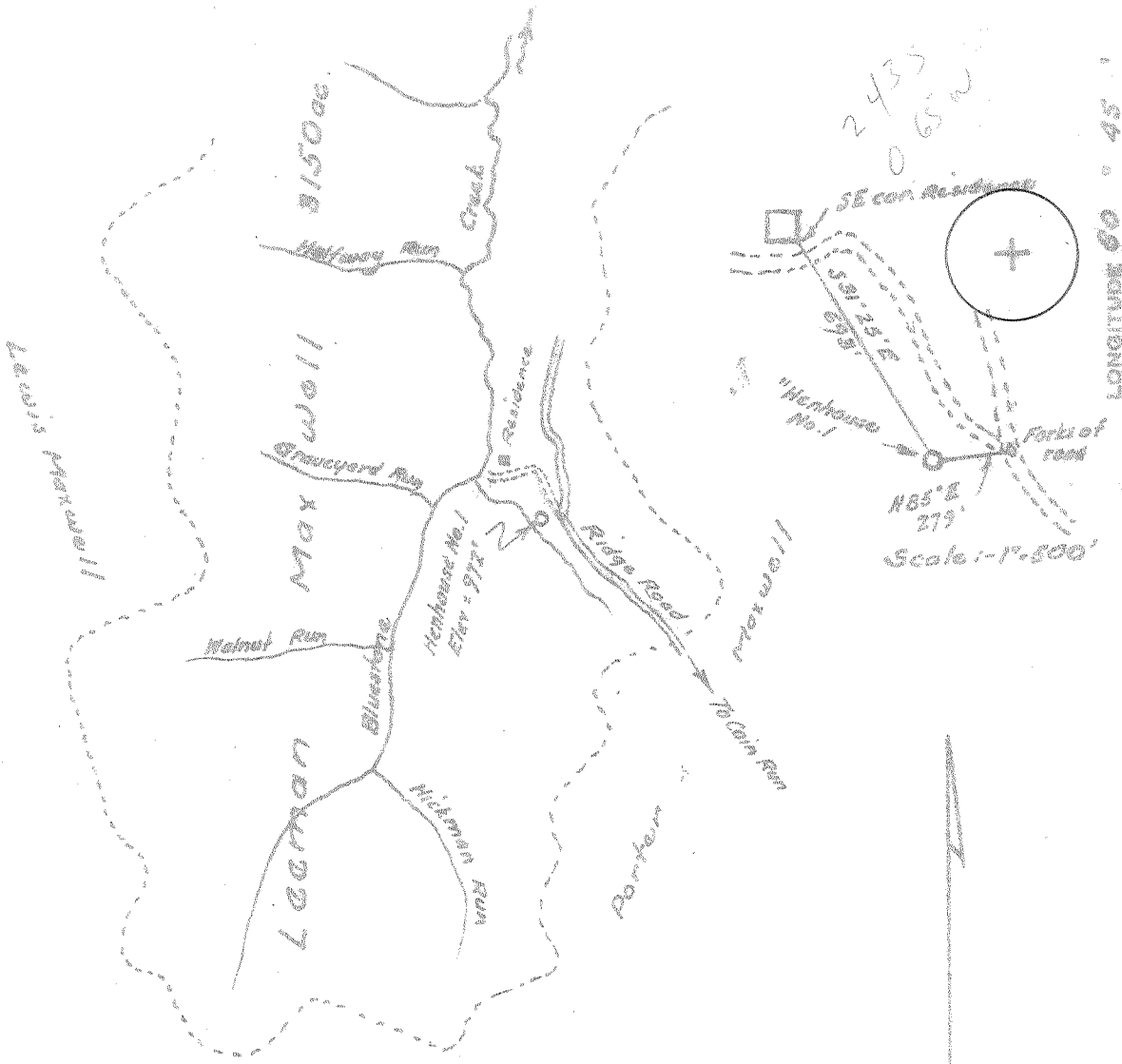
WELL LOCATION MAP

FILE NO. DODD-1702-
FRAC. Cancelled

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47-017



W. W. Stout

Minimum Error of Closure Lin 200'

Source of Elevation Elev. Henderson No. 2 - 1152

Fracture

New Location

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Signed: W. W. Stout

Squares: N S E W

Company Justin M. Henderson

Address West Union, W. Va., 26456

Farm Legman Bluestone (part)

Tract Acres 3182 Lease No. 1500 of

Well (Farm) No. Hankhouse 1 Serial No.

Elevation (Spirit Level) 972'

Quadrangle Holbrook - NE

County Doddridge District Southwest

Engineer W. W. Stout

Engineer's Registration No. 1227

File No. Drawing No.

Date Dec. 1, 1972 Scale 1" = 2000'

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

WELL LOCATION MAP

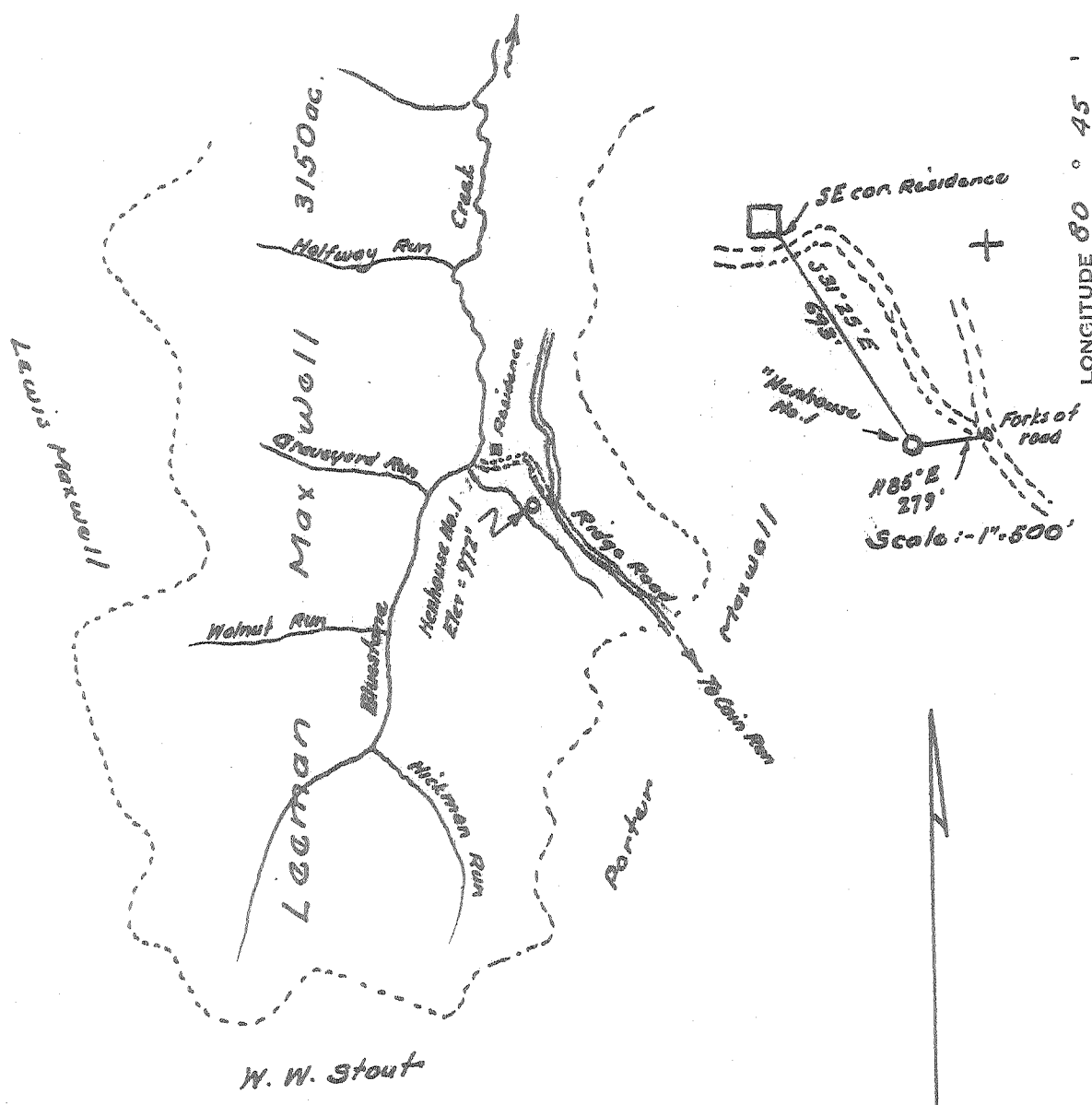
FILE NO. DOD-1702

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LATITUDE 39° 15'

LONGITUDE 80° 45'



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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.

Signed: Justin M. Henderson
 Squares: N S E W

Map No. _____

Company Justin M. Henderson
 Address West Union, W. Va., 26456
 Farm Leaman, Maxwell, Hrs. et al. (Min)
 Tract 1/500 of Acres 3150 Lease No. _____
 Well (Farm) No. Henbowl Serial No. _____
 Elevation (Spirit Level) 972'
 Quadrangle Holbrook NE
 County Roddrige District Southwest
 Engineer Justin M. Henderson
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Dec. 1, 1972 Scale 1" = 2000'

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

WELL LOCATION MAP
 FILE NO. DOD-1702

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 2 1972

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 Sept. 28, 1972
Company Justin M. Henderson (Henhouse Well #1)
Address West Union, W. Va. 26456
Farm Bluestone Farm Acres 7500+
Location (waters) Bluestone Creek-Scalehouse Run
Well No. Henhouse #1 Elevation _____
District Southwest County Doddridge
Quadrangle Holtbrook

Surface Owner Justin M. Henderson
Address 108 Wood St.
Mineral Owner Jane M. Henderson & Leeman
Maxwell Heirs
Address West Union, W. Va. &
Coal Owner "
Address Mary Lou
Coal Operator Holland farm
Address _____

INSPECTOR TO BE NOTIFIED Mr. Wm. Blesser
Box 1857 PH: Fairmont
Calfax, W. Va. 363-9105
20566

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 released for drilling. This permit shall expire if operations have not commenced by 3-1-73

Robert H. Todd
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 March 14 1899 by Leeman Maxwell made to John A. Connally and recorded on the 12th day of June 1899, in Doddridge County, Book 19 Page 327

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,

(Sign Name) Justin M. Henderson
Well Operator

Address
of
Well Operator

108 Wood St.
Street
West Union
City or Town
West Virginia
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.

traight Fork-
Bluestone Cr. (133) 6-6

Dodd-1702 PERMIT NUMBER

Survey



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAY 28 1975

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 April 21, 1975

Surface Owner Justin M. Henderson Company Henhouse No. 1, Justin M. Henderson Agt
 Address 708 Wood St. West Union, W. Va. Address 708 Wood St. West Union, W. Va.
 Mineral Owner Leeman Maxwell Heirs Farm Bluestone Acres 1500+
 Address West Union, W. Va. & Location (waters) Bluestone Creek-Scalchouse Run
 Coal Owner Same Well No. Henhouse No. 1 Elevation 1966
 Address As Above District Southwest County Doddridge
 Coal Operator _____ Quadrangle Hollbrook
 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 fracturing. This permit shall expire if operations have not commenced by 9-15-75.

Richard J. Morris

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED
354-7259 ADDRESS Grantsville, 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 Aug. 14th 1972 by Leeman Maxwell Heirs made to Justin M. Henderson and recorded on the 3 day of August 1973, in Doddridge County, Book 97 Page 453

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

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,
(Sign Name) Justin M. Henderson
Well Operator
708 Wood St.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

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

Street
West Union, W. Va. 25456
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.

DODD-1702-FRAC

PERMIT NUMBER

Bond FMC

47-017

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Spencer Enterprises NAME Hugh "Dud" Spencer -Owner
 ADDRESS Smithburg, W. Va. ADDRESS Rock Run, West Union, W. Va. 26456
 TELEPHONE 873-1602 TELEPHONE 873-2381
 ESTIMATED DEPTH OF COMPLETED WELL: 1719' ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Injun Sand
 TYPE OF WELL: OIL _____ GAS _____ 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 <u>10-3/4"</u>		<u>225'</u>	
9 - 5/8			
8 - 5/8	<u>1010'</u>		
7		<u>1741'</u>	
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom
<u>New Perforations at bottom of the Injuna between 1708 & 1718</u>			

APPROXIMATE FRESH WATER DEPTHS 45' FEET 76' SALT WATER 1000' FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? Yes 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