

Company Robert L. Holland  
~~H. AND H. OIL CO.~~

Address 9/2 Robert Holland, West Union, W. Va.

Farm Mary H. Holland, et al.

Tract \_\_\_\_\_ Acres 9.55 Lease No. \_\_\_\_\_

Well (Farm) No. One Serial No. \_\_\_\_\_

Elevation (Spirit Level) 1097

Quadrangle West Union

County Doddridge District West Union

Engineer [Signature]

Engineer's Registration No. 1227

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date Feb., 1960 Scale 1" = 300'

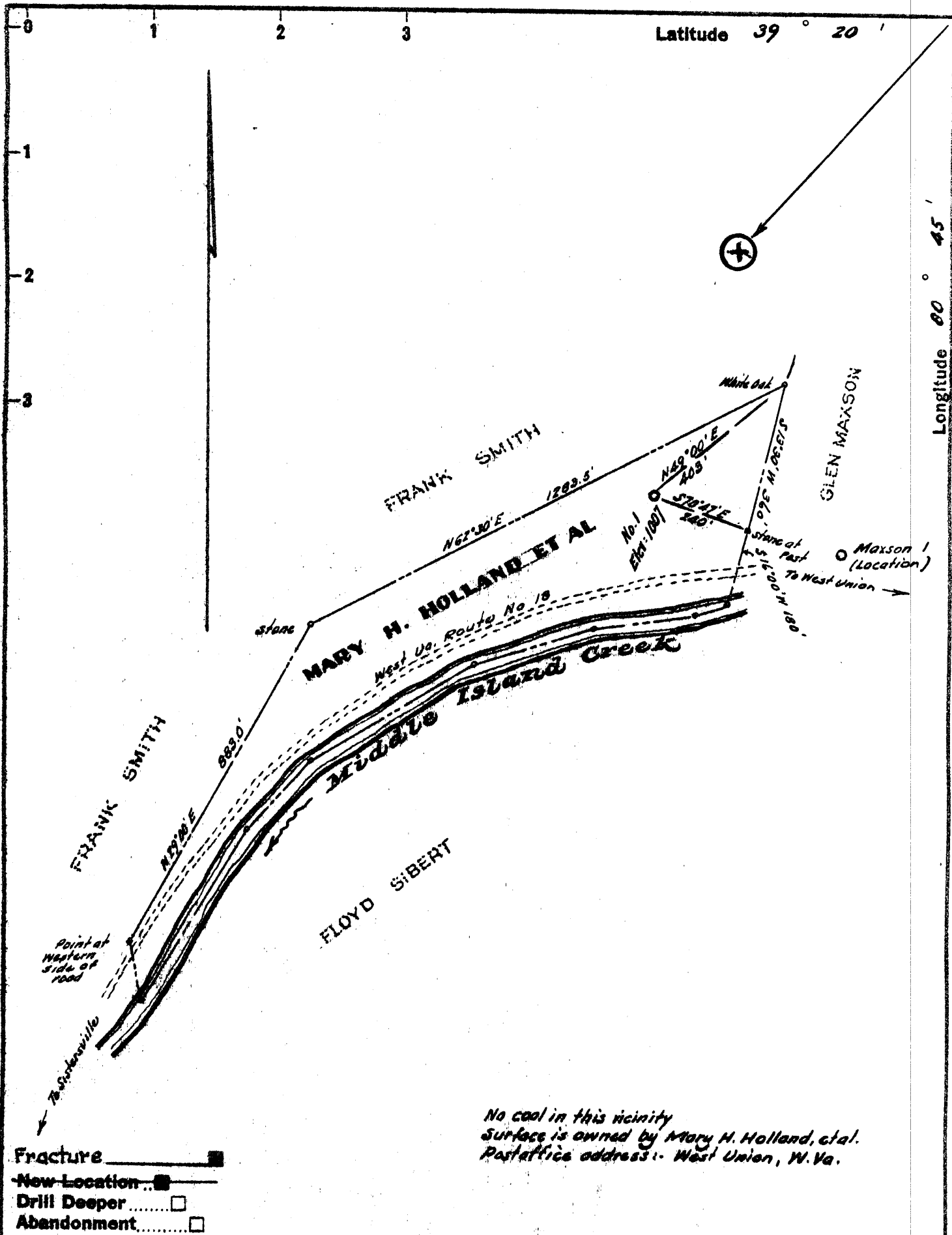
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

**WELL LOCATION MAP**

FILE NO. DDO - 312 - FROC.

+ 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.



Company Robert L. Holland  
H. AND H. OIL CO.

Address 5/2 Robert Holland, West Union, W. Va.

Farm Mary H. Holland, et al.

Tract \_\_\_\_\_ Acres 9.55 Lease No. \_\_\_\_\_

Well (Farm) No. One Serial No. \_\_\_\_\_

Elevation (Spirit Level) 1007

Quadrangle West Union SE

County Doddridge District West Union

Engineer W. Sibert

Engineer's Registration No. 1227

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date Feb. 1960 Scale 1" = 300'

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

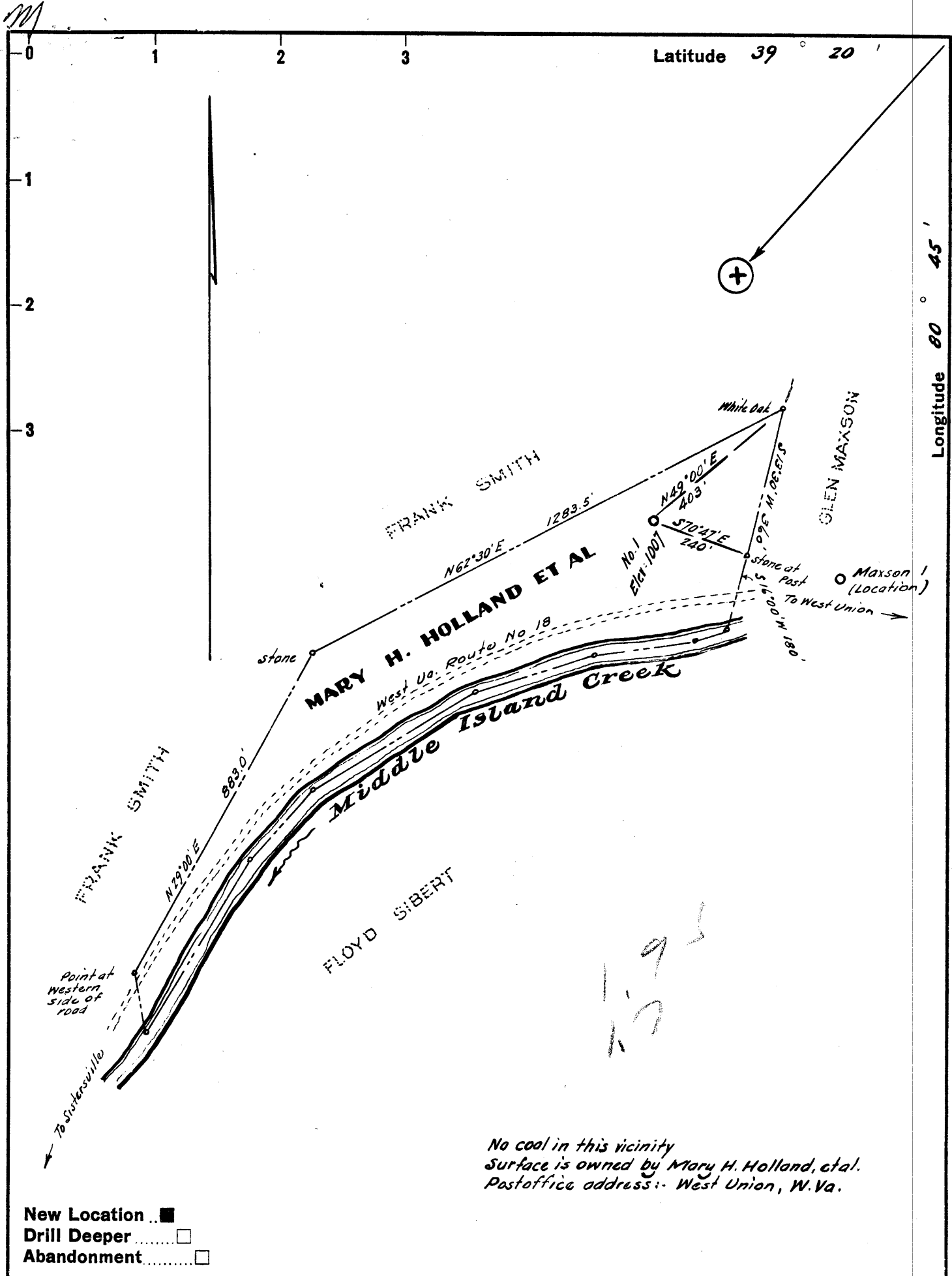
**WELL LOCATION MAP**

FILE NO. 000-312-Proc.

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

JUN 5 1974



No coal in this vicinity  
 Surface is owned by Mary H. Holland, et al.  
 Postoffice address:- West Union, W. Va.

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

Company H. AND H. OIL CO.  
 Address c/o Robert Holland, West Union, W. Va.  
 Farm Mary H. Holland, et al.  
 Tract \_\_\_\_\_ Acres 9.55 Lease No. \_\_\_\_\_  
 Well (Farm) No. One Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1007  
 Quadrangle West Union 506  
 County Doddridge District West Union  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Feb. 1960 Scale 1" = 300'

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

**WELL LOCATION MAP**  
 FILE NO. DOD-312

+ 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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6-6-99



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle West Union

Permit No. DOD-312

WELL RECORD

Oil or Gas Well oil & gas  
(KIND)

Company Robert L. Holland  
Address West Union, W. Va.  
Farm Mary H. Holland Acres 9.55  
Location (waters) Middle Island Creek  
Well No. 1 Elev. 1007  
District West Union County Doddridge  
The surface of tract is owned in fee by Mary H. Holland,  
et al Address West Union, W. Va.  
Mineral rights are owned by Franklin Maxwell  
Heirs Address Clarksburg, W. Va.  
Drilling commenced 17 March, 1960  
Drilling completed 13 April, 1960  
Date Shot From To  
With  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume 33 M. Cu. Ft.  
Rock Pressure 520 lbs. 24 hrs.  
Oil none bbls., 1st 24 hrs.  
WELL ACIDIZED Yes 1000 gal.  
WELL FRACTURED Yes 1928 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	189		Size of
8 3/4	1145		
6 3/8			Depth set
5 3/16	1827	1827'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5 1/2 SIZE <sup>150</sup>~~1827~~ No. Ft. 4/10/60 Date

GOAL WAS ENCOUNTERED AT none FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT 2,005 mcf  
ROCK PRESSURE AFTER TREATMENT 612 - 24 hours  
Fresh Water none Feet Salt Water none Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top soil			0	3			
Red clay			3	15			
slate			15	59			
Sand			59	85			
Redrock			85	110			
Slate			110	130			
Red rock			130	215			
Lime			215	225			
Red rock			225	230			
Slate			230	255			
Coal			255	260			
Slate			260	280			
Lime			280	312			
Sand			312	327			
Red rock			327	333			
Lime			333	350			
Red rock			350	390			
Slate			390	417			
Lime			417	423			
Slate-			423	465			
Red rock			465	485			
Slate			485	515			
Lime			515	521			
Coal blossom			521	525			
Pitt lime			525	540			
Slate			540	550			
Lime			550	565			
Slate			565	627			
Lime			627	635			

Formation	Color	Hard or Soft	Top 10	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			635	655			
Sand			655	665			
Slate			665	675			
Red rock			675	695			
Slate			695	715			
Red rock			715	727			
Lime			727	737			
Redrock			737	765			
Lime			765	775			
Red rock			775	784			
Lime			784	795			
Slate			795	837			
Red rock			837	857			
Slate			857	883			
Sand			883	925			
Slate			925	975			
Sand			975	988			
Slate			988	1105			
Lime			1105	1145			
Slate			1145	1165			
Sand			1165	1225			
Slate			1225	1260			
Sand			1260	1285			
Slate			1285	1310			
Sand							
Lime			1310	1330			
Sand			1330	1405			
Slate			1405	1445			
Sand			1445	1475			
Slate			1475	1530			
Lime			1530	1540			
Slate			1540	1550			
Lime			1550	1570			
Sand			1570	1610			
Slate			1610	1716			Maxon
Sand			1716	1773	Oil	1735-1950	
Bake			1773	1775			
Lime			1775	1795			
Slate			1795	1803			
Pencil cave			1803	1805			
Big Lime			1805	1885			
Sand			1885	1902			
Injun sand			1902	1971	gas gas	1914-1919 1951-1958	

NOTE: Well began making small amount of oil after in production approximately 4 weeks - produces about a barrel per week.

Date September 18, 1961

APPROVED: H. H. Oil Co Owner

By: Robert Mallard, agent  
(Title)



1) Date: 26 October, 1983  
 2) Operator's Well No. 1  
 3) API Well No. 47 - Dodd - 312-Fra  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )  
 5) LOCATION: Elevation: 1007' / Watershed: Middle Island  
 District: West Union Mag. / County: Doddridge / Quadrangle: West Union  
 6) WELL OPERATOR H & H Oil Company  
 Address Box 425  
West Union, WV 26456  
 7) DESIGNATED AGENT Robert L. Holland  
 Address Box 425  
West Union, WV 26456  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Stephen Casey  
 Address Route 2, Jane Lew, WV  
26378  
 9) DRILLING CONTRACTOR:  
 Name Nesler Well Service  
 Address Route 1  
West Union, WV 26456  
 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_

- 11) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_  
 12) Estimated depth of completed well, 1971 feet  
 13) Approximate strata depths: Fresh, -0- feet; salt, -0- feet.  
 14) Approximate coal seam depths: 255-260 Is coal being mined in the area? Yes  No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	OIL & GAS DIVISION PACKERS DEPT. OF MINES
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	10"			X		189'		C95 Kinds CASING IN PLACE Sizes Depths set Perforations: Top Bottom	
Fresh water	0								
Coal	8 1/2"			X		1145'			
Intermediate									
Production	5-3/16"			X		1827'			
Tubing									
Liners									

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-0312-Frac Date January 17, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires January 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <input checked="" type="checkbox"/> <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>2237</u>
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[Signature]  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

MAY 2 1974

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Mary H. Holland, et al  
Address West Union, W. Va.  
Mineral Owner Mary H. Holland, et al  
Address West Union, W. Va.  
Coal Owner same  
Address none  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

DATE March 28, 1974  
Company ROBERT L. HOLLAND  
Address West Union, W. Va. 26456  
Farm Mary H. Holland Acres 9.55  
Location (waters) Middle Island Creek  
Well No. 1 Elevation 1007  
District West Union County Doddridge  
Quadrangle West Union

**DOD-312 Issued March 12, 1960, well in continuous operation. Plans call for perforating and acidizing Squaw Sand. No new drilling or fracture involved.**

PLEASE SUBMIT COPIES OF ALL  
GEOLOGICAL LOGS DIRECTLY TO:

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

INSPECTOR TO BE NOTIFIED Paul Garrett  
312 Beech St. PH: 622-3871  
Clarksburg, WV.

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 27 January 1960 by Mary H. Holland, et al made to Robert L. Holland and recorded on the 29<sup>th</sup> day of Feb 1960, in Doddridge County, Book 62 Page 299

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.

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 9-2-74

[Signature]  
Deputy Director - Oil & Gas Division

Very truly yours,

(Sign Name) Robert L. Holland  
Well Operator  
105 High Street  
Street  
West Union, W. Va.  
City or Town  
West Virginia 26456  
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.

Survey  
Beed Area.

DOD 312-FRAC. PERMIT NUMBER

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

**Perforate and acidize**

PROPOSED WORK ORDER TO \_\_\_\_\_ DRILL \_\_\_\_\_ DEEPEN  **FRACTURE-STIMULATE**

DRILLING CONTRACTOR: (If Known) **Hugh Spencer** RESPONSIBLE AGENT: **Robert L. Holland**

NAME **Hugh Spencer** NAME **Robert L. Holland**

ADDRESS **Smithburg, W. Va.** ADDRESS **105 High Street**

TELEPHONE **873-1602** TELEPHONE **873-1921**

ESTIMATED DEPTH OF COMPLETED WELL: \_\_\_\_\_ ROTARY \_\_\_\_\_ CABLE TOOLS

PROPOSED GEOLOGICAL FORMATION: **Squaw**

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			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET

APPROXIMATE COAL DEPTHS \_\_\_\_\_

IS COAL BEING MINED IN THE AREA? \_\_\_\_\_ 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