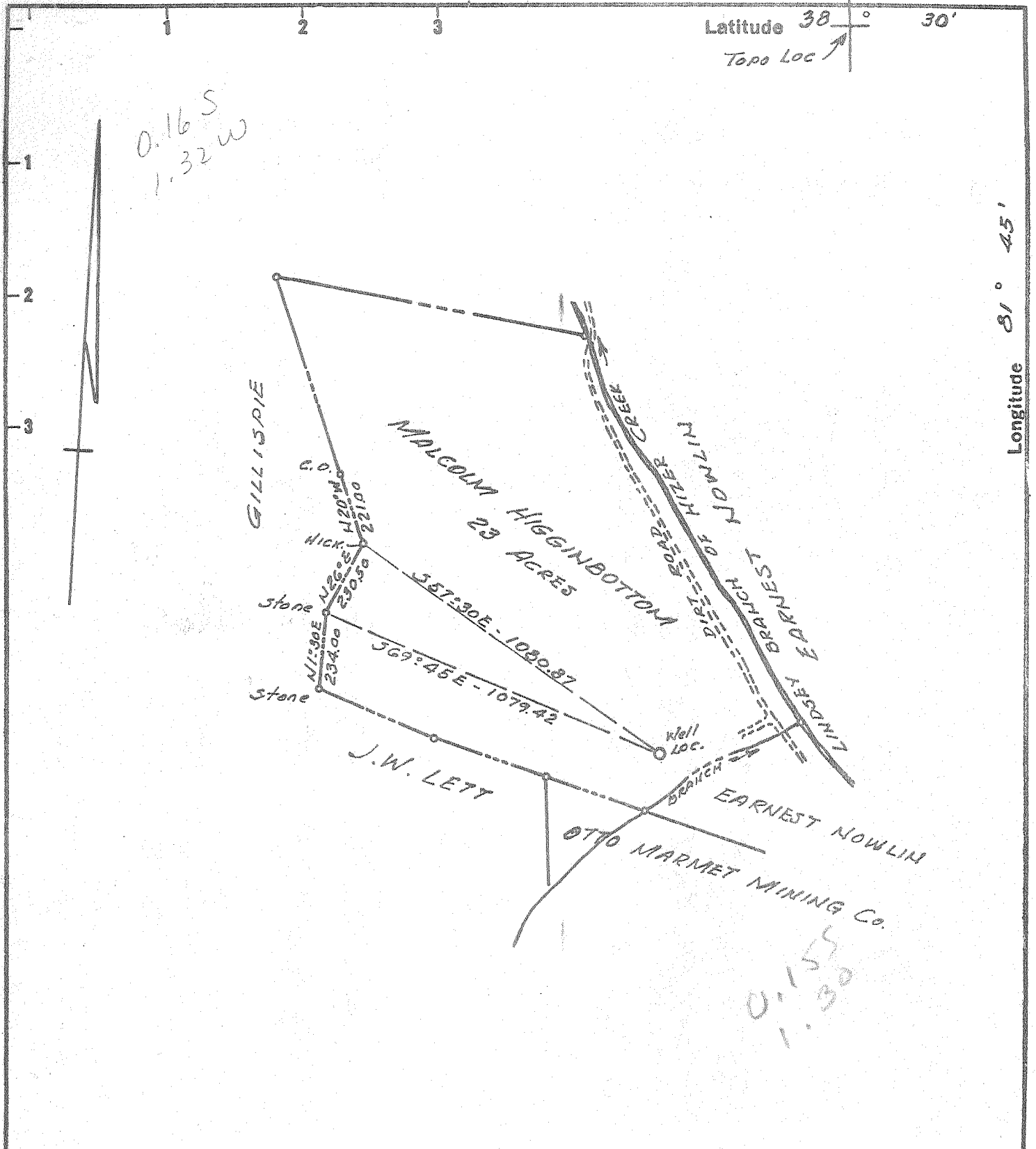


2/19/68 CEN



ABOVE TRACT IS A PART OF A 270 ACRE UNITIZATION

Fracture	<input type="checkbox"/>
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input checked="" type="checkbox"/>
1-9-69	

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION BM. 614, HIZER CR. ROAD

Company C.W. KELLY
 Address 295 - SOUTHERLAND DRIVE
ST. ALBANS, W.VA.
 Farm MALCOLM HIGGINBOTTOM
 Tract _____ Acres 23 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 698.10
 Quadrangle ST. ALBANS NE
 County RUTNAM District POCA
 Engineer N.D. Sefton
 Engineer's Registration No. 1892
 File No. _____ Drawing No. _____
 Date 2-16-68 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. PULT-742-P

+ 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.

G 6 312 Deep Well (Newburg)

JAN 25 1969



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Oil or Gas Well Gas
(KIND)

Form OG-10
Quadrangle St. Albans
Permit No. PUT- 742

Company C. W. KELLY
Address 295 Sutherland Drive - St. Albans, W. Va.
Farm Malcolm Hugginbottom et al Acres 23
Location (waters) Right fork of Poco River
Well No. One Elev. 698.1'
District POCO County Putnam
The surface of tract is owned in fee by M. H. Higginbottom
POCO Address W. Va.
Mineral rights are owned by M. H. Higginbottom et al
POCO Address W. Va.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
$\frac{7}{8}$ 20"	10'		
13	131'	131'	
10			Size of
$\frac{8}{16}$	1812'	1812'	
$\frac{6}{16}$			Depth set
$\frac{5}{16}$	5350'	5350'	
$\frac{4}{16}$			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

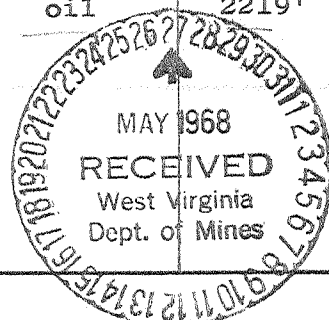
Drilling commenced 3/14/68
Drilling completed 4/ 5/68
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 180 m Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.


Attach copy of cementing record.
CASING CEMENTED 5 1/2" SIZE 5350 No. Ft. 3/28/68 Date
Amount of cement used (bags) 200 Common Portland
Name of Service Co. Halliburton Division
COAL WAS ENCOUNTERED AT 7' above rig floor
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) 500 gals. Reg. Mud Acid, 15000# 20-40 sand, 684 Bbls. water,
16.2 B/M at 4419 psi pressure.

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 310 mcf
ROCK PRESSURE AFTER TREATMENT 985 HOURS 36
Fresh Water 147' Feet Salt Water 1277', 1365' Feet
Producing Sand Oriskany Depth 4667' (4667)

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
red rock & shale		s	0	64			
sand			64	74			
red rock			74	106			
sand & shale			106	353	water	147'	
shale			353	365			
red rock			365	383			
shale & sand			383	830			
shale			830	1023			
sand			1023	1098			
shale			1098	1114			
sand			1114	1154			
shale			1154	1230			
sand			1230	1498	s. water	1277	
slate			1498	1518			
sand			1518	1543			
shale & lime			1543	1580			
shale			1580	1588			Pencil
lime			1588	1758			Big Lime
sand			1758	1802			Injun
slate			1802	2218			
sand			2218	2232	oil	2219'	Berea
				OVER-			



Formation	Color	Hard or Soft	Top - 2	Bottom	Oil, Gas or Water	Depth Found	Remarks
shale			2232	4543			
shale			4543	4573			
dolomite			4573	4661			Marcellus
sand			<u>4661</u>	<u>4678</u>	gas	<u>4667</u>	Onondaga
lime & dolomite			4678	5372			Oriskany
sandy dolomite			<u>5372</u>	<u>5398</u>			Newburg
lime			5398	5400			
TD				5400			
							
					5372 698 -4674	5372 4661	

Date May 24, 19 68

APPROVED C. W. Kelly, Owner

By  (Title)