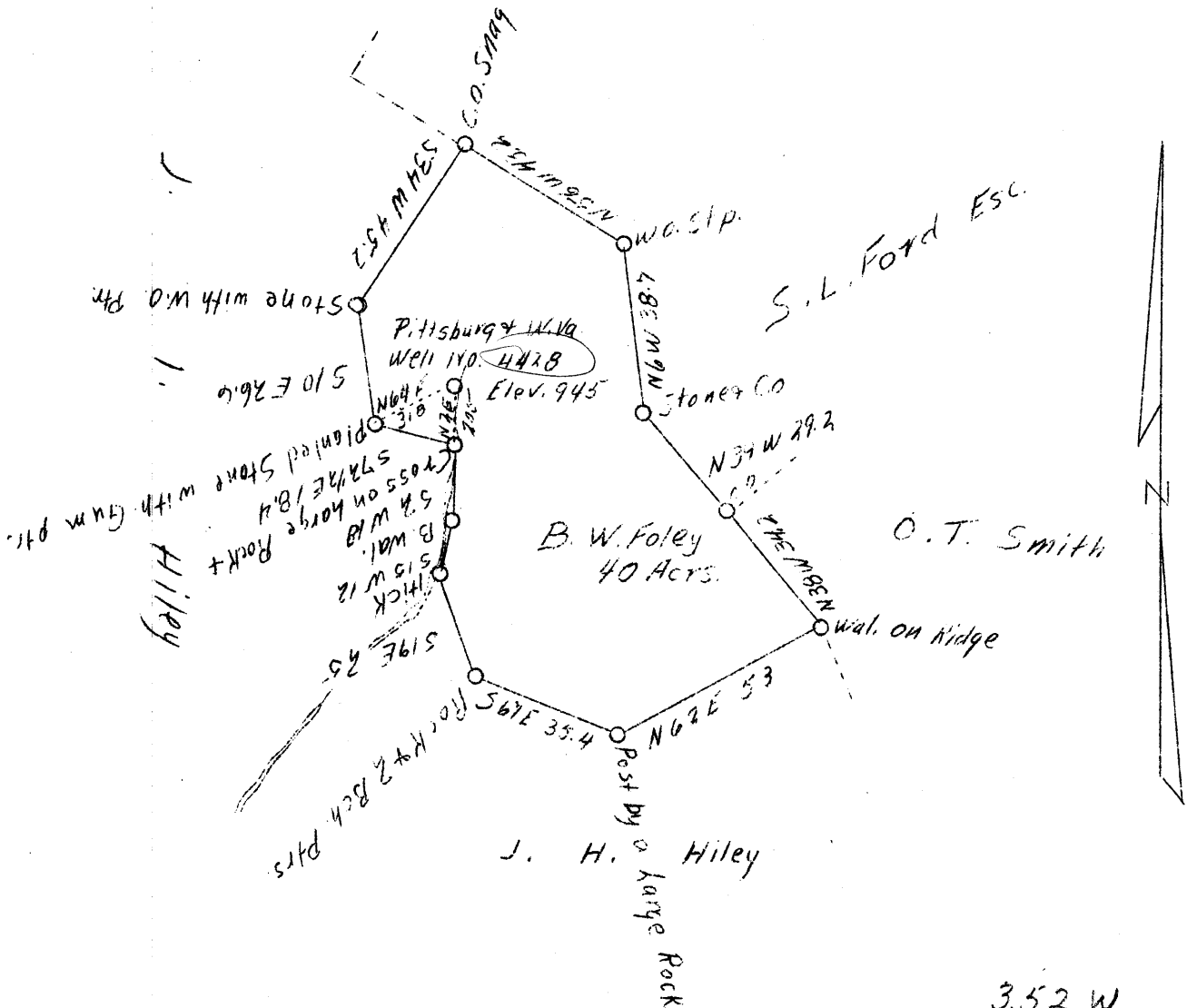


LATITUDE 39° 20'

LONGITUDE 80° 45'



3.52 W
1.3 S

7.5' loc
1,055 39 20
1.39 W 80 45 30
Calc 15' loc
1.055
3.62 W

Company I. H. Beren
Address Marietta, Ohio
Farm B. W. Foley
Tract One
Acres 40
Well (Farm) No. - 4428
Elevation (SL) 945
Quadrangle West Union
County Doddridge
District Central
Engineer J. M. Martin
Eng. Reg. No. 84
Date Feb. 8, 1939
Scale 1" - 40 poles

STATE OF WEST VIRGINIA
Department of Mines
OIL & GAS DIVISION
Charleston

WELL LOCATION MAP
File No. 1001-266-A
well # 4428

x Denotes location of well on U. S. 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.

WEST VIRGINIA DEPARTMENT OF MINES
OIL AND GAS DIVISION

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WELL RECORD

Permit No. 000-266-A

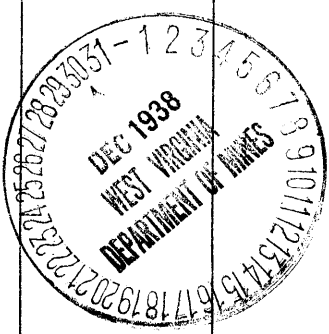
Oil or Gas Well Gas
(Kind)

Company Israel H. Boren
Address Marietta, Ohio
Farm B. W. Foley Acres _____
Location (waters) West Union S/E. 2-3
Well No. 4428 Elev. 945
District Central County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by J. D. Foley
Address West Union, W.Va.
Drilling commenced April 17, 1916
Drilling completed May 16, 1916
Date shot _____ Depth of shot _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 485 feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16.			Kind of Packer _____
13.			<u>6-5/8" X 2"</u>
10.	<u>502</u>		Size of <u>Hook Wall</u>
8 1/4.	<u>1065</u>	<u>1065</u>	
6 5/8.	<u>1841</u>	<u>1841</u>	Depth set <u>2520'</u>
5 3/16.			
3.			Perf. top _____
2.	<u>2732</u>	<u>2732</u>	Perf. bottom _____
Liners Used _____			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
COAL WAS ENCOUNTERED AT 300 FEET 36 INCHES
570 FEET 36 INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Dirt	Red	Soft	0	19			
Slate	White	Soft	19	89			
Sand	White	Hard	89	114			
Slate	Red	Soft	114	134			
Lime & Sand	White	Hard	134	174			
Slate&Shells	Red	Soft & Hard	174	300			
Coal	Black	Soft	300	303			
Slate	White	Soft	303	330			
Red Rock	Red	Soft	330	370			
Lime	Red	Hard	370	382			
Red Rock	Red	Soft	382	420			
Sand	White	Hard	420	465			
Slate	White	Soft	465	475			
Sand	White	Hard	475	500	Water	485'	
Slate	White	Soft	500	570			
PittsburghCoal	Black	Soft	570	573			
Lime	White	Hard	573	591			
Slate & Shells	Dark	Hard & Soft	591	710			
Red Rock	Red	Soft	710	790			
Slate	Light	Soft	790	800			
Lime	Light	Hard	800	812			
Slate	Light	Soft	812	819			
Sand	Light	Hard	819	831			
Slate	Light	Soft	831	845			
Sand	Light	Hard & Soft	845	860			
Slate	Light	Soft	860	900			
Red Rock	Red	Soft	900	930			
Slate	White	Soft	930	945			
L. Dunkard	White	Hard	945	960			
Slate	White	Soft	960	966			
Lime	White	Hard	966	974			
Slate	Dark	Soft	974	980			
Red Rock	Red	Soft	980	1000			
Slate & Shells	Dark	Hard & Soft	1000	1025			
Big Dunkard	White	Soft	1025	1045			
Slate	White	Soft	1045	1087			
Gas Sand	White	Hard	1087	1110			
Slate	White	Soft	1110	1119			
Sand	White	Hard	1119	1131			
Slate&Shells	White	Soft & Hard	1131	1175			
1st Salt	White	Hard	1175	1270			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Dark	Soft	1270	1370			
2nd Salt	Light	Hard	1370	1435			
Slate&Shells	Light	Hard & Soft	1435	1533			
Sand	Dark	Hard	1533	1558			
Slate&Shells	Light	Hard&Soft	1558	1598			
Sand	Light	Hard	1598	1620			
Slate	Dark	Soft	1620	1658			
Sand	Dark	Hard	1658	1690			
Slate&Shells	Dark	Hard&Soft	1690	1725			
Maxon Sand	Light	Hard	1725	1745			
Slate&Shells	Light	Hard & Soft	1745	1763			
Pink Rock	Pink	Soft	1763	1768			
Slate	Dark	Soft	1768	1778			
Little Lime	White	Hard	1778	1790			
Slate	Dark	Soft	1790	1800			
Pencil Cave	Dark	Soft	1800	1808			
Big Lime	White	Hard	1808	1878			
Big Injun	White	Hard	1878	1970	Gas	1900-03	
Slate	Light	Soft	1970	2017	Gas	1963-67	
Lime			2017	2275			
Slate			2275	2300			
Lime			2300	2400			
Slate			2400	2425			
Lime			2425	2521			
Sand			2521	2540	Gas	2527-29'	
Slate			2540	2545			
Lime			2545	2557			
Slate			2557	2600			
Lime			2600	2620			
Slate			2620	2640			
Lime			2640	2645			
Slate			2645	2655			
Lime			2655	2685			
Total Depth				2732'			

Date December 29, 1938

APPROVED Israel H. Breen Owner

By _____
(Title)

FORMATIONS
FORM: 032-5170

Well # 4428 B. W. Foley

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
Dirt		19				
Slate	19	89				
Sand	89	114				
Slate	114	134				
Thin sand	134	174				
Slaty shells	174	300				
Coal	300	303				
Slate	303	330				
Red Grb	370	382				
Red Grb	382	420				
Sand	420	465				
Slate	465	475				
Sand	475	500				
Slate	500	570				
Big Coal	570	573				
Thin	573	591				
Slaty shells	591	710				
Red Grb	710	790				
Slate	790	800				
Thin	800	812				
Slate	812	819				
Sand	819	831				
Slate	831	845				
Sand	845	860				
Slate	860	900				
Red Grb	900	930				
Slate	930	945				
Little Cumberland	945	960				
Slate	960	966				
Thin	966	974				
Slate	974	980				
Red Grb	980	1000				
Slaty shells	1000	1025				
Big Cumberland	1025	1045				
Slaty	1045	1087				
Sand (Gas)	1087	1110				
Slate	1110	1119				
Sand	1119	1131				
Slaty shells	1131	1175				
st. salt sand	1175	1270				
Slate	1270	1370				
and salt sand	1370	1435				
Slaty shells	1435	1533				
Sand	1533	1558				
Slaty shells	1558	1598				
Sand	1598	1620				
Slate	1620	1658				
Sand	1658	1690				
Slaty shells	1690	1725				
Marl sand	1725	1745				
Slaty shells	1745	1763				
Grb	1763	1768				
Slate	1768	1778				
Little Limestone	1778	1790				
Slate	1790	1800				
Quail Ore	1800	1808				
Big Limestone	1808	1878				
Big Iron sand	1878	1970				
Slate	1970	2017				
Total Depth						1980-1993 1963-1967

