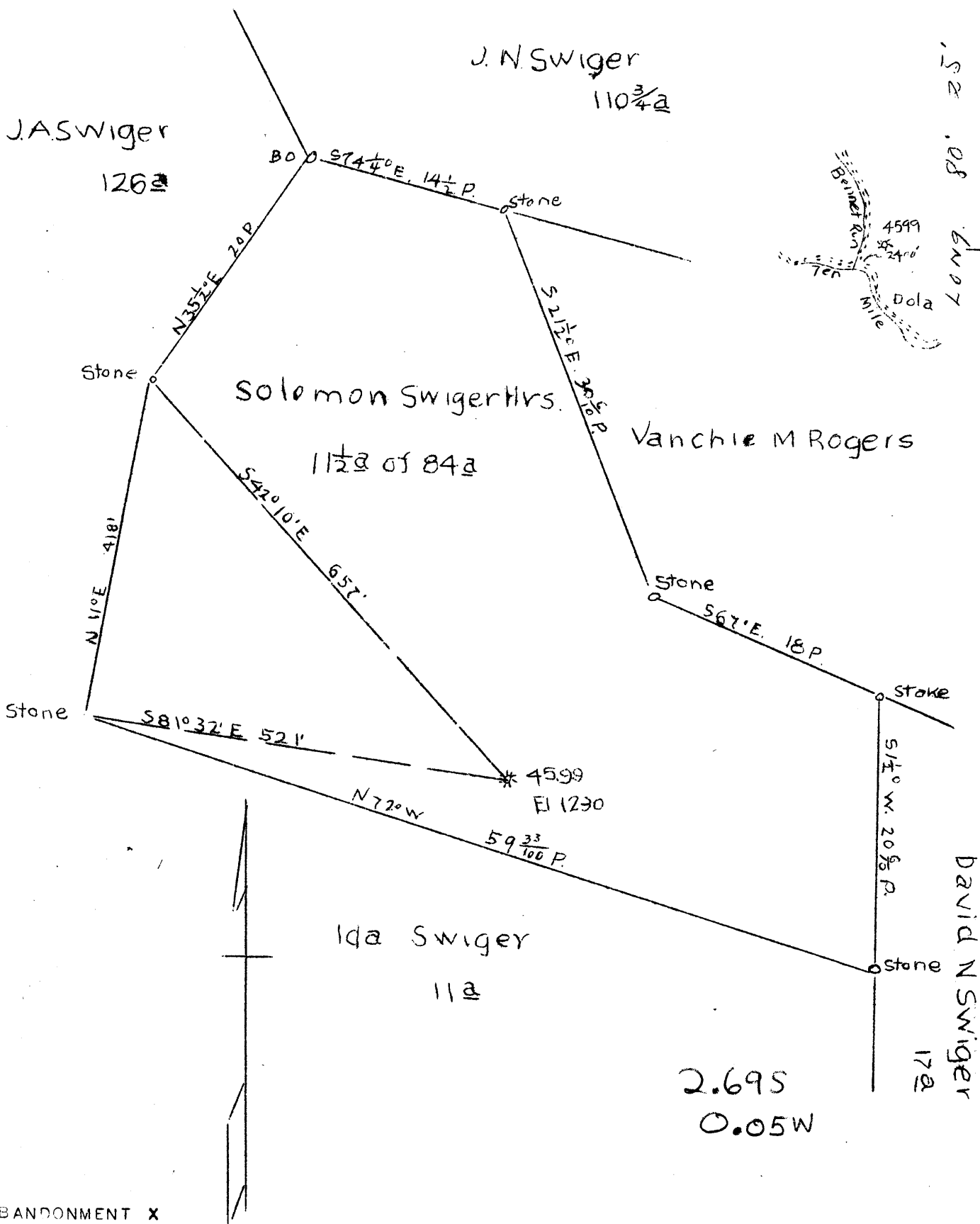


LAT. 39° 25'



COMPANY HOPE NATURAL GAS CO.
 ADDRESS CLARKSBURG, W. VA.
 FARM SOLOMON SWIGER HRS.
 TRACT ACRES 84 LEASE NO. 8341
 WELL (FARM) NO. SERIAL NO. 4599
 ELEVATION (SPIRIT LEVEL) 1230'
 QUADRANGLE CLARKSBURG
 COUNTY HARRISON DIST. EAGLE
 ENGINEER W. M. BOWERS
 ENGR. REGISTRATION NO. 900
 FILE NO. DRAWING NO.
 DATE JULY 18, 1946 SCALE 1" = 10 P.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. HAR 991 A

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

834

WELL RECORD

Permit No. 991-A or Gas Well _____ (KIND)

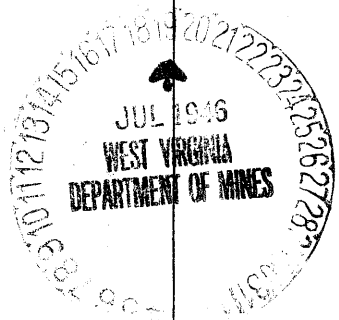
Company Hope Natural Gas Company.
 Address 445 West Main St. Clarksburg, W. Va.
 Farm Solomon Swiger Heirs. Acres 84
 Location (waters) _____
 Well No. 4599 Elev. 1230
 District Eagle County Harrison
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced April 12, 1917
 Drilling completed July 28, 1917
 Date Shot _____ From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 670 feet _____ feet
 Salt water 924 1130 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13			
10	<u>174</u>	<u>174</u>	Size of _____
8 1/4	<u>981</u>	<u>Pulled</u>	
6 3/8	<u>1500</u>	<u>1500</u>	Depth set _____
5 3/16	<u>2231</u>	<u>Pulled</u>	
3			Perf. top _____
2	<u>2094</u>	<u>X 2094</u>	Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 10" SIZE 174 No. Ft. 1917 Date

COAL WAS ENCOUNTERED AT 116 FEET 78 INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pittsburgh Coal			<u>116</u>	<u>122</u>			
Little Dunkard			<u>475</u>	<u>520</u>			
Big Dunkard			<u>644</u>	<u>702</u>	<u>water</u>	<u>670</u>	
Gas sand			<u>756</u>	<u>793</u>			
First Salt			<u>850</u>	<u>900</u>			
Second Salt			<u>920</u>	<u>1200</u>	<u>water</u>	<u>924- 1130</u>	
Little Lime			<u>1445</u>	<u>1455</u>			
Pencil cave			<u>1455</u>	<u>1460</u>			
Big Lime			<u>1460</u>	<u>1510</u>			
Big Injun			<u>1510</u>	<u>1684</u>	<u>gas</u>	<u>1647</u>	
Gantz			<u>2010</u>	<u>2040</u>			
Fifty foot			<u>2080</u>	<u>2153</u>	<u>gas</u>	<u>2085</u>	
Thirty foot			<u>2180</u>	<u>2204</u>			
Gordon stray			<u>2225</u>	<u>2234</u>			
Gordon			<u>2238</u>	<u>2250</u>			
Fourth			<u>2314</u>	<u>2365</u>	<u>show gas</u>	<u>2337</u>	
Fifth			<u>2487</u>	<u>2500</u>	<u>gas</u>	<u>2493</u>	
Bayard			<u>2590</u>	<u>2593</u>			
Drilled to				<u>2653</u>			
Filled back to				<u>2094</u>			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks

Date July 18, 1946., 194

APPROVED Hope Natural Gas Company., Owner

By General Superintendent.