

Company Hope Natural Gas Co.
 Address Clarksburg W. Va.
 Farm Joseph Knotts
 Tract _____ Acres 50 1/2 Lease No. 39118
 Well (Farm) No. _____ Serial No. 6409
 Elevation (Spirit Level) 835'
 Quadrangle Otter
 County Calhoun District Washington
 Engineer W M Bowers
 Engineer's Registration No. 90
 File No. _____ Drawing No. _____
 Date 8-12-48 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. CAL-247-A

+ 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.

NO



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

416

WELL RECORD

Permit No. AB 247A Oil or Gas Well _____ (KIND)

Company Hope Natural Gas Company
 Address 445 West Main St. Clarksburg, W. Va.
 Farm Joseph Knotts Acres 501 1/2
 Location (waters) _____
 Well No. 6409 Elev. 835
 District Washington County Calhoun
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced October 13, 1924
 Drilling completed November 21, 1924
 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 none recorded feet _____ feet
 Salt water none recorded feet _____ feet

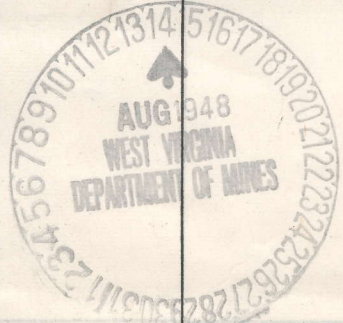
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 3/4	301	301	
6 5/8	1042	Pulled	Depth set
5 3/16	1745	1745	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

NOT CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 none recorded
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Dunkard			540	620			
Big Dunkard			676	910			
First Salt			1187	1253			
Second Salt			1338	1380			
Maxon			1601	1625			
Little Lime			1690	1707			
Pencil cave			1707	1715			
Big Lime			1715	1780			
Big Injun			1780	1800	gas	1790	
Total depth				1826			

8 joints 8 1/4" Left in
 1" " 5 3/4" " " "

1800
 835
 -965



FEB 17 1949

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
			1380	1300	Gas	1330	
			1372	1380			
			1301	1372			
			1300	1301			
			1301	1302			
			1306	1380			
			1301	1303			
			1300	1300			

DEPARTMENT OF MINES
STATE OF WEST VIRGINIA

Date August 3, 1948, 19

APPROVED _____, Owner
Hope Natural Gas Company.

By E. H. Tollefson
(Title) General Superintendent