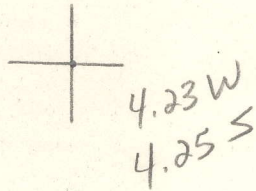


LATITUDE 38°45'

100.18 LONGITUDE



7'5 OGIS topo location

7.5' loc _____ 15' loc _____
 _____ (calc.) _____

Company _____

Farm _____

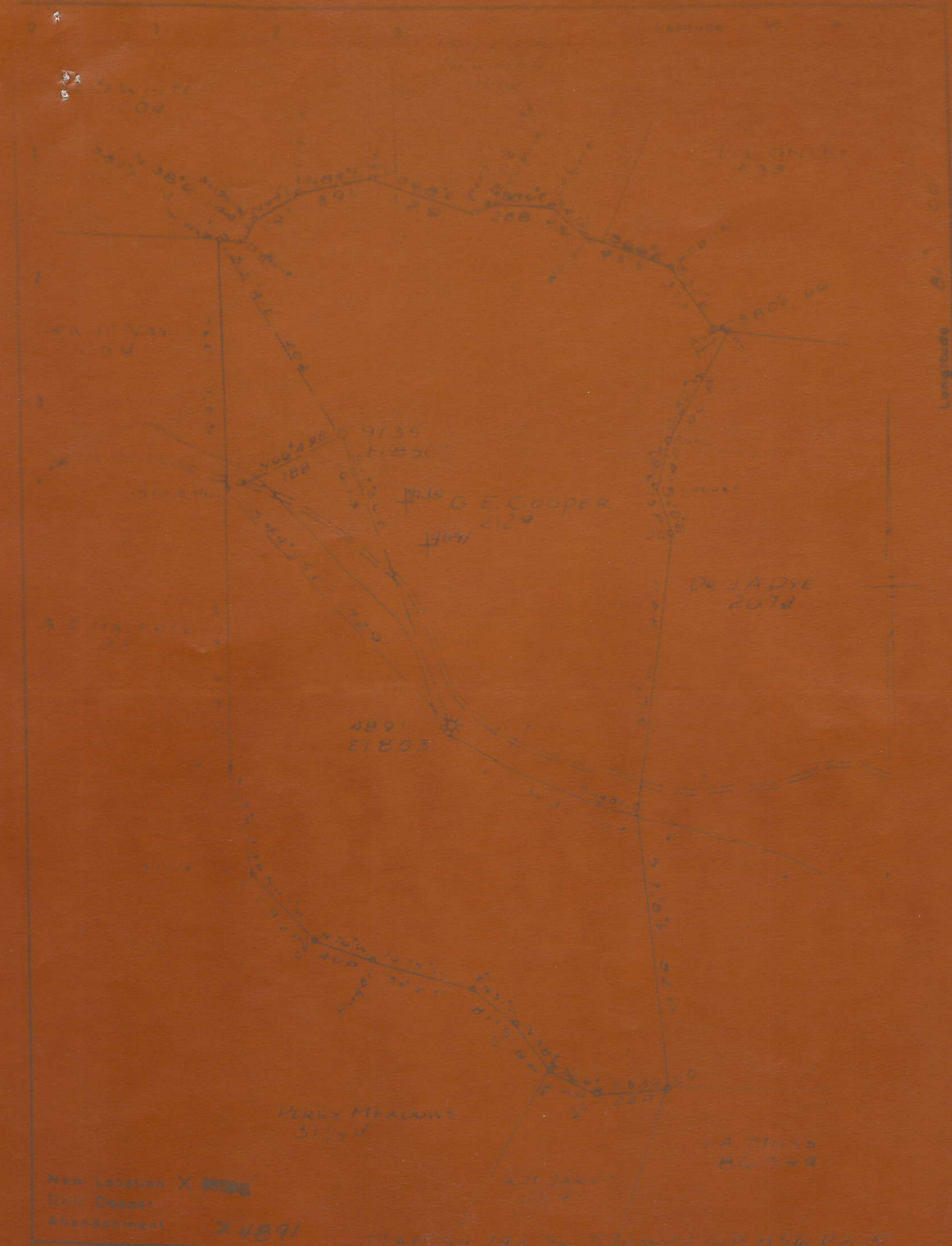
Quad Otter (NE)

County Calhoun

District Washington

WELL LOCATION MAP

File No. 013-335A



New Location X 21503
 Dist. Dept.
 No. 24891

Company ...
 Address ...
 Date ...
 Title ...

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

DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Address *Officer*
Permit No. *335 A*

Oil or Gas Well *Gas*
(Liner)

Company *Hughes Natural Gas Company*
Address *Clarksburg, W. Va.*
Farm *S. E. Corner* Acres _____
Location (waters) _____
Well No. *2891* Elev. _____
District *Washington* County *Calhoun*
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced *August 13, 1917*
Drilling completed *Oct. 18, 1917*
Date Shut *10-31-17* From *1914* To *1917*
Well *10 W.P.*

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			Kind of Parker
13			Size of
10	<i>274</i>	<i>272</i>	Depth set
8 1/2	<i>1309</i>	<i>1309</i>	Perf. top
6 3/4			Perf. bottom
5			Perf. top
2			Perf. bottom

Open Flow _____ 100% Water in _____ Inch
_____ 100% Merc. in _____ Inch

Valves *Exhausted* _____ Cu. Ft. _____
Casing Cemented *No Cementing* _____ SIZE _____ No. Ft. _____ Date _____

Rock Pressure _____ lbs. _____ lbs. _____
Oil *None* _____ bbls. per 24 hrs. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

Free water *Not recorded* _____ feet _____ feet _____ FEET _____ INCHES
Salt water _____ feet _____ feet _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Dunkard			290	375			
Big Dunkard			372	508			
Gas Sand			1830	1870	Gas	1830'	
First Salt			1182	1175			
Second "A" lt			1294	1355	Gas	1313'	
Maxon			1370	1410			
Little Lime			1410	1458			
Pencil Cove			1458	1490			
Big Lime			1491	1585			
Big Injua			1585	1615			
Lime			1615	1667			
Slate			1667	1890			
Lime			1890	1910			
Slate			1910	1955			
Lime			1955	2035			
Slate			2035	2075			
Lime			2075	2115			
Original Total Depth				2452'			

Plugged back at 2115' because of no gas below salt sand.

Washington District, Calhoun County, W. Va.
 By Hope Natural Gas Co., Clarksburg, W. Va.
 Abandoned under permit Cal-.....-A? Otter Quadrangle.
 On.....acres.

Elevation, ' L.

Drilling commenced Aug. 13, 1917; completed Oct. 18, 1917.

Shot Oct. 31, 1917, at 1314-1317', with 10 qts.

No oil. Water not reported.

10" casing, 272'; 8 $\frac{1}{2}$ " 1309'; all left in.

No cementing.

No coal was encountered.

Gas well. Record to Dept. of Mines dated June 6, 1956.

Record to RCT from Mrs. Griffith Oct. 26, 1956. Old File No. 495.

	Top.	Bottom.
Little Dunkard Sand	290 -	335
Big Dunkard Sand	372 -	588
Gas Sand (gas, 1030')	1030 -	1070
First Salt Sand	1168 -	1175
Second Salt Sand (gas, 1315')	1294 -	1355
Maxton Sand	1370 -	1410
Little Lime	1410 -	1458
Pencil Cave	1458 -	1461
Big Lime	1461 -	1565
Big Injun Sand	1565 -	1615
Lime	1615 -	1647
Slate	1647 -	1890
Lime	1890 -	1910
Slate	1910 -	1955
Lime	1955 -	2035
Slate	2035 -	2075
Lime	2075 -	2115
Original total depth		2452
Because of no gas below Salt Sand, plugged back to		1364



495

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Otter

Permit No. 383A Sup M.

WELL RECORD

Oil or Gas Well Gas
(KIND)

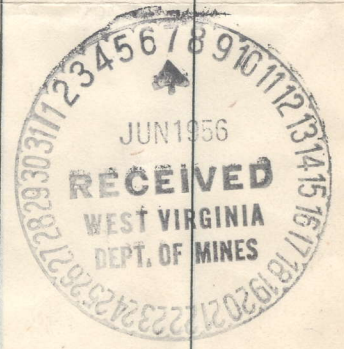
Company Hope Natural Gas Company
 Address Clarksburg, W. Va.
 Farm G. E. Cooper Acres _____
 Location (waters) _____
 Well No. 4891 Elev. _____
 District Washington County Calhoun
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced August 13, 1917
Oct. 18, 1917
 Drilling completed _____
 Date Shot 10-31-17 From 1314 To 1317
 With 10 Qts.
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume Exhausted Cu. Ft. _____
 Rock Pressure _____ lbs. _____ hrs.
 Oil None bbls., 1st 24 hrs. _____
 Fresh water Not recorded feet _____ feet
 Salt water " " feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	272	272	Size of
8 1/4	1309	1309	
6 1/2			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
No Cementing
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
No Coal
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Little Dunkard			290	335			
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Lime			1615	1647			
Slate			1647	1890			
Lime			1890	1910			
Slate			1910	1955			
Lime			1955	2035			
Slate			2035	2075			
Lime			2075	2115			
Original Total Depth				2452'			

Plugged back to 1364' because of no gas below Salt Sand.



June 6, 1956
Jack Bailey
Hope Naturl Gas Company