



Company LEROY CASSADY
 Address BLUE CREEK, W.VA.
 Farm LOUIS Y. GRAHAM HRS.
 Tract _____ Acres 357 Lease No. _____
 Well (Farm) Nos 1-2-3-4-5-6 Serial No. _____
 Elevation (Spirit Level) SEE ABOVE P. 51
 Quadrangle CLENDENIN
 County KANAWHA District ELK
 Engineer L. F. Dye
 Engineer's Registration No. 804
 File No. _____ Drawing No. _____
 Date 2-17-48 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO KAN-491-A-#3
KAN-492-A-#4

+ 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.

620 217

LOUIS Y. GRAHAM HRS, NOS. 3 & 4 - LEROY CASSADY - KAN-491-2-A

LOUIS Y. GRAHAM HEIRS NO. 3 WELL.

491A

Elk District, Kanawha County, W. Va.
 By J. V. Reishman, Charleston, W. Va.
 Abandoned under permit Kan-.....-A?
 On.....acres.
 Elevation,¹ L.
 Drilling completed Jan. 24, 1912.
 Shot April 16, 1912, at 1802-1812-25', with 40 cts.
 Fresh water at 70 and 140'.
 Salt water at 380 and 1330'.
 13" conductor, 16'; 10" casing, 71'; 8 $\frac{1}{2}$ " 540' (pulled); 6 $\frac{3}{8}$ " 1526';
 2" tubing, 1818'.
 Gas well. Record to Dept. of Mines not dated or stamped.
 Record to RCT from Mrs. Griffith September 27, 1949. Old File No. 1403.

	Top.	Bottom.
Slate and lime	150	200
Sand	200	225
Slate and shells	225	290
Sand	290	325
Slate	325	350
Hard shells	350	400
Sand	400	440
Slate	440	445
Sand	445	550
Slate	550	575
Sand	575	675
Slate	675	690
Sand	690	750
Slate	750	755
Sand	755	800
Slate	800	810
Slate	810	875
Slate	875	880
Salt Sand (water, 940', hole full)	880	1330
Break	1330	1340
Sandy lime	1340	1390
Red rock	1390	1395
Slate	1395	1420
Lime	1420	1425
Red rock	1425	1460
Shell	1460	1470
Lime	1470	1500
Little Lime	1500	1530
Break	1530	1534
Broken lime	1534	1546
Pencil Cave	1546	1550
Lime	1550	1555
Cave	1555	1557
Big Lime (gas, 1609')	1557	1720
Big Injun Sand	1720	1747
Slate and shells	1747	1795
Hard shell	1795	1800
Top sand (first gas and oil, 1800')	1800
Total depth		1814



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

1403

WELL RECORD

Permit No. 191-A

Oil or Gas Well _____ (KIND)

Company J. V. Reishman
Address Charleston, W. Va.
Farm Louis Y. Graham Hrs. Acres _____
Location (waters) _____
Well No. 3 Elev. _____
District Elk County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced _____
Drilling completed January 24, 1912
Date Shot 4-16-1912 From 1802 To 1812-25
With 40 qts.
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 70 feet 140 feet
Salt water 880 feet 1330 feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13 <u>Conductor</u>	<u>16'</u>	<u>16'</u>	
10	<u>71'</u>	<u>71'</u>	Size of
8 1/4	<u>540'</u>		
6 3/8	<u>1526'</u>	<u>1526'</u>	Depth set
5 3/16			
3			Perf. top
2	<u>1818'</u>	<u>1818'</u>	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

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
Slate and lime			150	200			
Sand			200	225			
Slate and shells			225	290			
Sand			290	325			
Slate			325	350			
Hard shells			350	400			
Sand			400	440			
Slate			440	445			
Sand			445	550			
Slate			550	575			
Sand			575	675			
Slate			675	690			
Sand			690	750			
Slate			750	755			
Sand			755	800			
Slate			800	810			
Slate			810	875			
Slate			875	880			
Slat sand			880	1330			
Break			1330	1340			
Sandy lime			1340	1390			
Red rock			1390	1395			
Slate			1395	1420			
Lime			1420	1425			
Red rock			1425	1460			
Shell			1460	1470			
Lime			1470	1500			
Little lime			1500	1530			
Break			1530	1534			
Broken lime			1534	1546			
Pencil cave			1546	1550			
Lime			1550	1555			
Cave			1555	1557			
Big lime			1557	1720			
Injun sand			1720	1747			
Slate and shells			1747	1795			
Hard shell			1795	1800			
Top sand			1800				
First gas and oil			1800				

Water

940'

Hole full

Gas in lime 1609

Total depth

(Over) 1814

SEP 27 1949