

- New Location.
- Drill Deeper.....
- Redrill.....
- Abandonment.....

Company Francis E. Cain
 Address Big Bend, W. Va.
 Farm Fred Riggs
 Tract _____ Acres 50 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 840
 Quadrangle Arnoldsburg WC
 County Calhoun District Lee
 Engineer John W. Hamilton
 Engineer's Registration No. 2274
 File No. _____ Drawing No. _____
 Date 4-29-61 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. CAW-1818-D

DRILL DEEPER
 + 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.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 3

Quadrangle Arnoldsburg

WELL RECORD

Permit No. Cal-1818

Oil or Gas Well Oil

Company Francis E. Cain
Address Big Bend, W. Va.
Farm Fred Riggs Acres 50
Location (waters) Barnes Run
Well No. 1 Elev. 840
District Lee County Calhoun
The surface of tract is owned in fee by Fred Riggs et al
Address Mt. Zion, W. Va.
Mineral rights are owned by Fred Riggs et al
Address _____
Drilling commenced April 2, 1960
Drilling completed April 23, 1960
Date Shot no From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ 10 bbls., 1st 24 hrs.
WELL ACIDIZED no
WELL FRACTURED no

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10	310	310	Size of
8 1/4	946	946	
6 3/4			Depth set
5 3/16			
3		1590	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

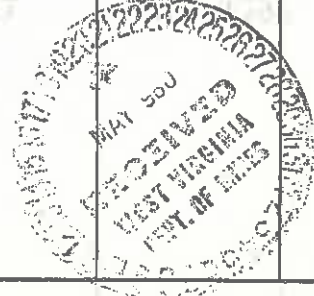
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water hole full Feet 60 Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
gravel			0	15			
sand			15	35			
slate			35	60			
red rock			60	84			
slate			84	106			
sand			106	118			
red rock			118	146			
slate			146	204			
sand			204	242			
red rock			242	252			
white slate			252	362			
sand			362	344			
slate			344	463			
red rock			463	575			
lime			575	604			
slate			604	688			
sand			688	706			
red rock			706	715			
slate			715	735			
red rock			735	795			
lime			795	835			
slate			835	875			
sand			875	881			
slate			881	945			
sand			945	956			
slate			956	962			
sand			962	975			
lime			975	982			
slate			982	1075			
sand			1075	1086			



(over)

Formation	Color	Hard or Soft	Top 3	Bottom	Oil, Gas or Water	Depth Found	Remarks
slate			1086	1135			
sand			1135	1148			
slate			1148	1245			
sand			1245	1256			
slate			1256	1387			
sand			1387	1406			
slate			1406	1428			
sand			1428	1468			
slate			1468	1570			
sand			1570	1590	oil	1576-1590	10 barrels per day natural

Date _____, 19__

APPROVED _____, Owner

By _____ (Title)





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Arnoldsburg

Permit No. Cal-1818-D

WELL RECORD

Oil or Gas Well Oil & Gas
(IND)

Company Francis E. Cain
Address Big Bend, W. Va.
Farm Fred Riggs Acres 50
Location (waters) Barnes Run
Well No. 1 Elev. 840
District Lee County Calhoun
The surface of tract is owned in fee by Fred Riggs
Address Mt. Zion, W. Va.
Mineral rights are owned by Fred Riggs et al
Address Mt. Zion, W. Va.
Drilling commenced May 22, 1961
Drilling completed June 9, 1961
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.
WELL ACIDIZED

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	310		Size of
8 1/4	946		
6 3/4	1839	1839	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date
8 sacks Aqua Gel by Beecher

COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED 600 barrels water, 1,000 gallon acid, 28,000 lbs. sand

RESULT AFTER TREATMENT 195,000 Cu. Ft. 3 barrel oil

ROCK PRESSURE AFTER TREATMENT 250-24hours

Fresh Water Feet Salt Water hole full Feet 1690

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
sand			1580	1735			
slate			1735	1740			
little lime			1740	1770			
cave			1770	1773			
Big Lime			1773	1876			
Big Injun sand			1876	1920			
Big Injun			1920	1948	show gas	1927-1937	
slate			1948	2035			

2035
1590
445 -DD fig

JUL 20 1961