

New Location...
 Drill Deeper.....
 Abandonment.....

Company The Pure Oil Co.
 Address Newark, Ohio
 Farm Williams Coal Co.
 Tract _____ Acres 12000 Lease No. 5012
 Well (Farm) No. 19 Serial No. 303
 Elevation (Spirit Level) 1169
 Quadrangle Montgomery WC
 County Kanawha District Cabin Creek
 Engineer J. B. Smith
 Engineer's Registration No. Ohio-2912
 File No. _____ Drawing No. _____
 Date 11-22-49 Scale 1" = 200'

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

WELL LOCATION MAP
 FILE NO. KAN-660-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.

660A

Cabin Creek District, Kanawha County, W. Va.
 By The Pure Oil Co., Box 551, Newark, Ohio.
 Abandoned under permit Kan-.....-A? (Water injection well now).
 On 12,000 acres, on Cabin Creek.
 Elevation, 1169' L.
 Surface and minerals owned by Shonk Land Co., 802 Kanawha Banking &
 Trust Bldg., Charleston, W. Va.
 Drilling commenced Dec. 13, 1915; completed March 3, 1916.
 Shot March 4, 1916, at 2828-2841', with 60 qts.
 Oil, 88 bbls., 1st 24 hrs.
 Fresh water at 160 and 410'.
 Salt water at 1350'.
 10" casing, 625'; 8 $\frac{1}{4}$ "¹¹, 1550' (pulled); 6 $\frac{3}{8}$ "¹¹, 2130'; 3" tubing, 2817'.
 Coal was encountered at 235-240 and 605-610'.
 Water injection (oil) well. Record to Dept. of Mines dated Dec. 13, 1949.
 Record to RCT from Mrs. Griffith Nov. 18, 1950. Old File No. 1504.

	Top.	Bottom.
Clay, yellow	0	13
Sand, brown	13	85
Slate, black	85	160
Sand, white (water, 160', 2 bailers)	160	235
Coal, black	235	240
Lime, white	240	250
Slate, blue	250	300
Sand, white	300	360
Slate, blue	360	410
Slate, white (water, 410', 9 bailers)	410	415
Lime, white	415	460
Slate, black	460	510
Lime, white	510	605
Coal, black	605	610
Lime, white	610	620
Slate, black	620	625
Sand, brown	625	685
Slate, black	685	775
Sand, white	775	845
Shells, black	845	930
Slate, black	930	1040
Sand, white	1040	1048
Grampus Sand, yellow	1048	1148
Slate, black	1148	1200
Salt Sand, white (water, 1350', hole full)	1200	1550
Slate, black	1550	1555
Sand, white	1555	1585
Slate, black	1585	1640
Red rock	1640	1685
Shells, black	1685	1725
Red rock	1725	1800
Slate, white	1800	1910
Red rock	1910	1960
Maxton Sand, white	1960	1978
Slate cave, black	1978	1986
Shells, black	1986	2031
Little Lime, black	2031	2133
Slate cave, black	2133	2162

(OVER)

WILLIAMS COAL CO. NO. 19 WELL (Continued).

4000

	Top.	Bottom.
Big Lime, white	2162	2385
Big Injun Sand, red	2385	2420
Shells, black	2420	2670
Slate, black	2670	2791
Shale, brown	2791	2811
Berea Sand, white	2811	2842
Lime, black	2842	2848
Total depth		2848

11	0 - 11	Flow yellow
12	11 - 12	Sand, brown
13	12 - 13	Slate, black
14	13 - 14	Sand, white (water, 150', 2 below)
15	14 - 15	Coal, black
16	15 - 16	Lime, white
17	16 - 17	Slate, blue
18	17 - 18	Sand, white
19	18 - 19	Slate, blue
20	19 - 20	Slate, white (water, 110', 9 feet)
21	20 - 21	(see)
22	21 - 22	Lime, white
23	22 - 23	Slate, black
24	23 - 24	Lime, white
25	24 - 25	Coal, black
26	25 - 26	Lime, white
27	26 - 27	Slate, black
28	27 - 28	Sand, brown
29	28 - 29	Slate, black
30	29 - 30	Sand, white
31	30 - 31	Shells, black
32	31 - 32	Slate, black
33	32 - 33	Sand, white
34	33 - 34	Sand, white
35	34 - 35	Sand, white
36	35 - 36	Sand, white
37	36 - 37	Sand, white
38	37 - 38	Sand, white
39	38 - 39	Sand, white
40	39 - 40	Sand, white
41	40 - 41	Sand, white
42	41 - 42	Sand, white
43	42 - 43	Sand, white
44	43 - 44	Sand, white
45	44 - 45	Sand, white
46	45 - 46	Sand, white
47	46 - 47	Sand, white
48	47 - 48	Sand, white
49	48 - 49	Sand, white
50	49 - 50	Sand, white
51	50 - 51	Sand, white
52	51 - 52	Sand, white
53	52 - 53	Sand, white
54	53 - 54	Sand, white
55	54 - 55	Sand, white
56	55 - 56	Sand, white
57	56 - 57	Sand, white
58	57 - 58	Sand, white
59	58 - 59	Sand, white
60	59 - 60	Sand, white
61	60 - 61	Sand, white
62	61 - 62	Sand, white
63	62 - 63	Sand, white
64	63 - 64	Sand, white
65	64 - 65	Sand, white
66	65 - 66	Sand, white
67	66 - 67	Sand, white
68	67 - 68	Sand, white
69	68 - 69	Sand, white
70	69 - 70	Sand, white
71	70 - 71	Sand, white
72	71 - 72	Sand, white
73	72 - 73	Sand, white
74	73 - 74	Sand, white
75	74 - 75	Sand, white
76	75 - 76	Sand, white
77	76 - 77	Sand, white
78	77 - 78	Sand, white
79	78 - 79	Sand, white
80	79 - 80	Sand, white
81	80 - 81	Sand, white
82	81 - 82	Sand, white
83	82 - 83	Sand, white
84	83 - 84	Sand, white
85	84 - 85	Sand, white
86	85 - 86	Sand, white
87	86 - 87	Sand, white
88	87 - 88	Sand, white
89	88 - 89	Sand, white
90	89 - 90	Sand, white
91	90 - 91	Sand, white
92	91 - 92	Sand, white
93	92 - 93	Sand, white
94	93 - 94	Sand, white
95	94 - 95	Sand, white
96	95 - 96	Sand, white
97	96 - 97	Sand, white
98	97 - 98	Sand, white
99	98 - 99	Sand, white
100	99 - 100	Sand, white

(over)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

1574

WELL RECORD

Permit No. KAN-660-A

Oil or Gas Well Water Injection
(KIND)

Company The Pure Oil Company
Address Box 551 - Newark, Ohio
Farm Williams Coal Company Acres 12,000
Location (waters) Cabin Creek
Well No. 19 Elev. 1169'
District Cabin Creek County Kanawha
The surface of tract is owned in fee by Shonk Land Co.
802 Kanawha Banking & Trust Bldg. Charleston,
Address W. Va.
Mineral rights are owned by Shonk Land Co.
802 Kanawha Banking & Trust Bldg. Charleston,
Address W. Va.
Drilling commenced 12/18/15
Drilling completed 3/3/16
Date Shot 3/1/16 From 2828 To 2811
With 60 Qts.

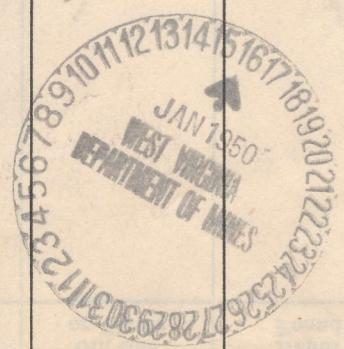
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			
10	625	625	Size of
8 1/4	1550	None	
6 5/8	2180	2180	Depth set
5 3/16			
3	2817	2817	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil 88 bbls., 1st 24 hrs.
Fresh water 160' feet 410' feet
Salt water 1350' feet feet

CASING CEMENTED SIZE No. Ft. Date
COAL WAS ENCOUNTERED AT 235 FEET 60 INCHES
605 FEET 60 INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	yellow		0	13			
Sand	brown		13	85			
Slate	black		85	160			
Sand	white		160	235	Water	160'	2 bailers
Coal	black		235	240			
Lime	white		240	250			
Slate	blue		250	300			
Sand	white		300	360			
Slate	blue		360	410			
Slate	white		410	415	Water	410'	9 bailers
Lime	white		415	460			
Slate	black		460	510			
Lime	white		510	605			
Coal	black		605	610			
Lime	white		610	620			
Slate	black		620	625			
Sand	brown		625	685			
Slate	black		685	775			
Sand	white		775	845			
Shells	black		845	930			
Slate	black		930	1040			
Sand	white		1040	1048			
Grampus	yellow		1048	1148			
Slate	black		1148	1200			
SALT SAND	white		1200	1550	Water	1350'	Hole Full
Slate	black		1550	1555			
Sand	white		1555	1585			
Slate	black		1585	1640			
Rock	red		1640	1685			
Shells	black		1685	1725			
Rock	red		1725	1800			
Slate	white		1800	1910			
Rock	red		1910	1960			
MAXON SAND	white		1960	1978			
Slate cave	black		1978	1986			
Shells	black		1986	2031			
Little Lime	black		2031	2133			
Slate cave	black		2133	2162			

©



(Over)

NOV 18 1950

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
BIG LIME	white		2162	2385			
INJUN SAND	red		2385	2420			
Shells	black		2420	2670			
Slate	black		2670	2791			
Shale	brown		2791	2811			
BEREA SAND	white		2811	2842			
Lime	black		2842	2848			
<u>TOTAL DEPTH</u>				2848			

DEPARTMENT OF MINES
BUREAU OF GEOLOGICAL SURVEY

Date December 13, 19 49

The Pure Oil Company
APPROVED P. O. Box 551, Newark, Ohio, Owner

By *Ford Wilby*
Senior Superintendent