Adair		78	[illegible]	[illegible]
McGinnis, Ward		847	5762	SPL.
Laughlin, Geo. W	#1	1623	OJC	oil
dry	DEC. 1939			

PI API 001-00002

V

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES
ROLLA, MISSOURI

COUNTY Adair LOG NUMBER 5762

COMPANY OR OWNER Ward McGinnis

FARM Dr. Geo. Laughlin WELL NO. 1

LOCATION SW SE SW SEC. 18 T. 62 R. 15W

CONTRACTOR W. McGinnis

DRILLER TOOL DR.

COMMENCED 10/25/39 COMPLETED Dec. 1939

PRODUCTION PLOTTED

CASING RECORD 381' of 12½"; 894' of 10"; 1161' of 8¼"; 1351' of 6-5/8"

WATER RECORD 1½ blrs 153-160, 2 blrs 210-220, 2 blrs 325-340

SOURCE OF LOG 2 blrs. 370, H.F.W. 615-25 ELEV. 847.1 (P.T.)

REMARKS 301 samples. Bad water 720. H.F.W. 1013-1018 TOTAL DEPTH 1623'

100' from S line
1100' " E "

				18		
		x				

FORMATION	THICK.	DEPTH	FORMATION	THICK.	DEPTH
Drift	25	25			
Henrietta	73	98			
Cherokee	252	350			
Ste. Genevieve	31	381			
No Sample	6	395			
St. Louis	37	432			
Spergen or Upper Warsaw	33	465			
Warsaw	60	525			
Burlington-Keokuk	175	690			
Sedalia ?	5	695			
Chouteau	125	820			
Hannibal	31	851			
Louisiana ?	1	852			
Devonian	350	1132			
Kimmswick	93	1225			
Decorah	20	1245			
St. Peter	55	1300			
Everton	47	1347			
Cotter	35	1382			
Swan Creek	10	1392			
Jefferson City	31	1623	T.D.		
Driller's Log					
Soil	5	5	Lime shells and shale	14	54
Shale, brown	15	20	Sand	11	65
Shale, sandy	5	25	Sandy shale	35	100
Sand and gravel	3	28	Shale	20	120
Shale	5	33	Shale, gray	10	130
Lime	2	35	Sand	30	160
Shale	5	40	Sand	3	163

(over)

Lime	7	170
Shale	40	210
Sand	10	220
Sand	5	225
Shale	30	255
Shale	15	270
Lime	5	275
Shale	10	285
Lime	2	287
Shale (chatty)	13	300
Lime	2	302
Sand and shale	13	315
Sandy shale	10	325
Sand	15	340
Shale	10	350
Sand	20	370
Sand	5	375
Lime	62	437
Shale, light & green	13	450
Shale	13	463
Lime	22	485
Lime, gray	15	500
Lime	15	515
Lime	20	535
Lime	30	555
Lime	15	570
Lime	20	590
Lime	15	605
Lime	20	625
Lime	30	655
Lime	15	670
Lime	20	690
Shale and shells	5	695
Lime (bad water at 720)	20	715
Lime	15	730
Lime	5	735
Lime	17	752
Lime	19	771
Lime, brown	14	785
Lime, brown	7	792
Lime	8	800
Lime	20	820
Lime	3	823
Shale	5	828
Shale, blue	10	838
Shale	13	851
Lime	1	852
Shale	6	858
Shale	3	861
Lime shell	1	862
Shale	7	869
Shale	11	880
Shale	4	884
Lime, sandy, gray	6	890
Lime	4	894
set 10" pipe		
Lime	11	905
Lime	5	910
Shale and shells	5	915

Shale, gray	10	925
Broken lime	15	940
Dried up hole at 942		
Lime	20	960
Lime	15	975
Lime	15	990
Lime	13	1003
Lime	10	1013
Sand, HFW	5	1018
Took water sample at 1018		
Sand	17	1035
Lime	10	1045
Lime	10	1055
Lime	3	1058
Shale	2	1060
Lime	5	1065
Lime	18	1083
Lime	14	1097
Lime (HFW 1108)	11	1108
Sand	5	1113
Lime, sandy	12	1125
Lime	7	1132
Lime	16	1148
Lime	13	1161
Lime	6	1167
Lime	3	1170
Dolomite, brown	8	1178
Lime and brown dolo.	17	1195
Lime	7	1202
Lime, br. dolomite	2	1204
Lime, brown	14	1218
Lime	8	1226
Lime	14	1240
Sand	5	1245
Sand	6	1251
Sand, water	24	1275
Sand, water	15	1290
Sand	4	1294
Shale, green	12	1306
Sand	8	1314
Sand, white	8	1322
Sand	10	1332
Sand	5	1337
Shale	12	1347
Lime, 6-5/8" csg.	6	1351
Lime	3	1354
Sand, HFW	3	1357
Lime	7	1364
Shale	10	1374
Lime	14	1388
Lime	10	1398
Lime	10	1408
Lime	8	1416
Lime	6	1422
Lime	13	1435
Lime	10	1445
Lime	7	1452
Lime	9	1461
Lime	10	1471

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES
ROLLA, MISSOURI

COUNTY Adair LOG NUMBER 5762

COMPANY OR OWNER Ward McGinnis

FARM _____ WELL NO. _____

LOCATION _____ SEC. 18 T. 62 R. 15W

CONTRACTOR _____

DRILLER _____ TOOL DR. _____

COMMENCED _____ COMPLETED _____

PRODUCTION _____ PLOTTED _____

CASING RECORD _____

WATER RECORD _____

SOURCE OF LOG _____ ELEV. _____

REMARKS _____ TOTAL DEPTH _____

FORMATION	THICK.	DEPTH	FORMATION	THICK.	DEPTH
Lime	12	1483			
Lime	10	1493			
Lime	8	1501			
Lime	10	1511			
Lime	10	1521			
No log available	102	1623	T.D.		

adair Co.
O + G.

File

February 8, 1946

Mr. Ralph Spearow
Inn Hotel
Butler, Missouri

Dear Ralph:

I wish you would get more definite information on the records that you desire. It is pretty tough trying to run down such indefinite information. However, I think we have finally found the log of the well that you desired. This well is located in the SW¼ NE¼ NE¼ Sec. 10, T. 62 N., R. 17 W., Adair County. We carry it as log number 500 (1531 on W. card file). It has an elevation of 861 feet, Paulin Altimeter. Our record indicates that this was a core drill hole which reached a depth of 363 feet. It was drilled on the land of D. D. Novinger. Location of this well is approximately 11 miles northwest of Kirksville and 2 miles from the Baden Cemetery. The well was drilled by G. W. York and was completed April 23, 1914. I believe this is the record which you have been trying to locate.

I am enclosing a summary of this log.

Very truly yours,

Edward L. Clark
State Geologist

ELC/mh
encl.

Well - core drilled
about 1906 - 1912
depth of 400 - 500' (?)
by a coal Co from
Penn.
On Noverger farm
11 miles airline NW of
Kirksville -
2 miles from Baker
Spring. -

T 63 or 64 N
R 16 or 17 W.

Adair Co.
O + G.

January 31, 1946

Mr. Ralph Spearow
Inn Hotel
Butler, Missouri

Dear Ralph:

Dr. Clark has referred to me your letter of January 30 concerning the log of a coal company test to a depth of 800 feet in the vicinity of Kirksville, Adair County.

In this area the top of the Mississippian limestones are encountered at depths varying from 250 to 400 feet, depending upon the surface elevation and location. As a consequence, most coal drilling stops at the top of the Mississippi lime at a distance considerably short of the depth you mention. I can find no record of a coal test to the depth above noted. However, the following is the log of a hole which was drilled about three miles southwest of the town of Kirksville:

Log of Ward McGinnis-George W. Laughlin No. 1, SW SW SE SW, Sec. 18, T. 62 N., R. 15 W., surface elevation 874 feet.

Glacial drift	0 - 25	feet
Henrietta limestone and shale	25 - 100	"
Cherokee sandstone and shale	100 - 350	"
Ste. Genevieve? sand with some lime .	350 - 381	"
St. Louis limestone	381 - 432	"
Spergen shaley limestone	432 - 464	"
Warsaw cherty limestone	464 - 525	"
Keokuk-Burlington cherty limestone .	525 - 695	"
Chouteau limestone	695 - 820	"
Hannibal shale	820 - 850	"
Louisiana limestone	850 - 852	"
Grassy Creek shale	852 - 882	"
Devonian limestone and dolomite with sand in lower 25 feet	882 - 1132	"
Kimmswick dolomite	1132 - 1225	"
Decorah dolomite	1225 - 1245	"
St. Peter sandstone	1245 - 1300	"
Everton sandstone and shale	1300 - 1351	"
Cotter and Jefferson City cherty and sandy dolomite	1351 - 1623	" T.D.

In the above log the top of the Ste. Genevieve marks the top of the Mississippian and the Hannibal and Grassy Creek are probably what is known as the Kinderhook and Chattanooga shales. The Kimmswick dolomite is the same as the Viola of the mid-continent. The base of the Everton and top of the Cotter marks the top of the Arbuckle of the mid-continent.

There have been approximately 20 holes drilled on the so-called Lincoln fold which traverses Putnam, Adair, Knox, and Shelby counties in northeast Missouri. Most of these holes were drilled to the St. Peter and to the Arbuckle. In no case has a commercial show of oil been found. There is no question but that the Lincoln fold is a very pronounced structural feature, but for some reason, not yet explained, no oil has been found in any of the drilling on it. Most geologists believe that possibilities exist in the Devonian and in the Kimmswick. Unfortunately many of the holes, while located on the regional fold, were not necessarily located on a local structural feature. This is due in some measure to the fact that glacial drift obscures surface outcrops and makes surface geology rather difficult to work out. Certainly before any hole is finally located in the area some core drilling should be done to some recognizable marker in either the Pennsylvanian or Mississippian to determine the local structure.

I hope that the above information will give you the general picture of the area.

Sincerely yours,

John Grohskopf
Ass't. State Geologist

JG/mh

H. GRADY MANNING, *Founder* • R. E. McEACHIN, *Managing Director*

DIRECTION
Southwest Hotels INC.

Hotel
CONTINENTAL

KANSAS CITY 6, MO.

January 30th '46

Mr. Edward Clark
Missouri Dept. Survey
Rolla, Missouri:-

Dear friend:-

Just a hastily penned note to tell you I'm back from my vacation trip to the West Coast and that plans are now going ahead for the final test drilling of that structure in Bates County. Sometime in the near future I will communicate with you further relative to drilling procedure and a probable statement to the commissioner of Securities for

H. GRADY MANNING, *Founder* • R. E. McEACHIN, *Managing Director*

DIRECTION
Southwest Hotels INC.

Hotel
CONTINENTAL

KANSAS CITY 6, MO.

this state.

In the meantime I have been approached by one familiar to some degree in past attempts to drill in the area around Kirksville, Missouri.

I am told that your office has a cutting report on a well drilled by a Coal company to a depth of some 800 feet near Kirksville and I'd appreciate a duplicate on it and any other data available in that general area. Send it to me at The Inn Hotel, Butler, Mo.

Sincerely

Ralph Spearow