

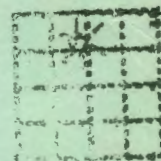
33-13-22E

BORDERS-GATTON-KASPER
Kaths No. 4.

SEC. 33 T. 13 R. 22E
SE NE NW
280-290' W EL 1450' N SL NW 1/4

Total Depth. 590'
Comm. 11-7-40 Comp. 12-8-40
Shot or Treated.
Contractor. J.G. Gatton
Issued. 9-6-41

County. Johnson



CASING:
6 1/4" 486'

Elevation. 950.5 feet
933.3 Gatton

Production. 336,000 ? cu ft
gas

Figures Indicate Bottom of Formations.

surface & clay	4
lime & boulders	15
shale blue	38
lime	66
shale	67
lime	105
shale gy	147
lime	158
shale gy	170
lime sdy	172
lime hrd	182
shale	200
lime	225
shale	228
lime WS	260
shale gy	263
shale dk	267
lime BF	290
slate blk	292
lime	295
shale	301
lime	307 1/2
shale sdy	335
shale gy	390
shale dk sticky	416
shale sdy	423
sand	435 gas
shale gy	457 bubbles
sand hd	460
sand sfter	475 gas
shale	480 125,000
lime	486
shale	488
lime	492
shale blk	499
lime	507
shale	521
lime	525
slate blk	526 gas
shale blk	529 200,000
sand	537
sand limey	540
(extra hrd)	

shale gy	543
red bed	545
shale	555
lime	557 SLM
slate blk	559
shale	565
limey sand hrd	570
shale lgt	573
sand, upper	
Squirrel	590
1st gas	574
336,000 overall gas	
Total Depth.	

SAGAMORE OIL AND GAS COMPANY

INDEPENDENCE, KANSAS

Company F. J. Kath, et al., Kansas City, Mo.

S. T. R. 33-13-22
 County Johnson
 State Kansas
 Lease and Well No. Kath #4

Contractor J. G. Catton, Holliday, Kansas

Drilling Commenced 11/7/40

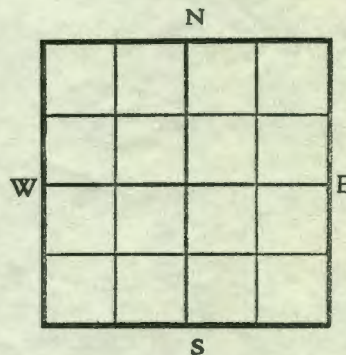
Drilling Completed 12/9/40

Initial Production 300,480 cu. ft. (Two sands)

Initial Rock Pressure

Location

Casing



Driller's Record of Formations

soil and clay	4	4	sand hard	3	540
lime black	11	15	shale gray	3	543
shale blue	23	38	red bed	3	546
lime	28	66	shale	9	555
shale	1	67	lime	2	557
shale gray	42	147	slate black	2	559
lime	11	158	shale	6	565
shale gray	12	170	sand hard	5	570
lime sandy	2	172	shale light	3	573 gas at 574
lime hard	10	182	sand gas 336MCF	17	590 T.D.
shale dark	18	200			
lime	25	225			
shale dark	3	228			
lime	32	260			
shale gray	3	263			
shale dark	4	267			
lime Bethany	23	290			
slate black	2	292 gas and water			
lime Hertha	3	295			
shale	6	301			
lime	6 $\frac{1}{2}$	307 $\frac{1}{2}$ SLM			
shale sandy	27 $\frac{1}{2}$	335			
shale gray	55	390			
shale dark	26	416			
shale sandy	7	423			
sand	12	435 gas bubble			
shale gray	22	457			
sand hard	18	475			
shale	5	480 125M gas at 478			
lime	6	486 Set 6 $\frac{1}{4}$ " at 480'			
shale	2	488			
lime	4	492			
shale black	7	499			
lime	8	507			
shale	14	521			
lime	4	525			
slate black	1	526 150M gas			
shale	3	529			
sand	8	537			

Total test of two gasses 300,480.
 Less 150,000 = 150,480 cubic feet
 for lower sand test.

U.G.B. Form 186