

Company Defenders Petroleum Co. + Trades O + G

Farm Boles

No. 1

3- 35- 34W
Sec. 3 T. 35 R. 34W

Loc. NE $\frac{1}{4}$ of the NW $\frac{1}{4}$

County Seward

Total Depth 2919

Comm. 3-15-19

Comp. 12-20-22

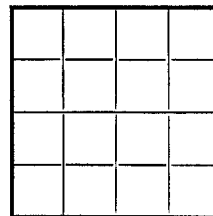
Shot or Treated

Contractor

Issued

Casing

20 in.	10 in
15 1/2	8 1/4
12 1/2	6 5/8
13 3/8	5 3/16



Elevation

2950

I.P. 5 mil gas, est.

Production

Figures Indicate Bottom of Formation

Sand and soft clay	0-50
Gyp, clay, etc.	50-105
sandy clay	105-115
water sand	115-132
brown and yellow clay	132-150
water sand	150-156
sticky clay	156-160
gyp and clay	160-218
fine brown sand with streaks of sticky clay	218-325
white gypsum	325-329
sand with shale and clay break	329-600
clay and lime shale	600-640
sticky glue clay	640-658
17" stove pipe landed at 658 feet	
red clay	658-760
Light colored sandy lime, carrying water	760-765
red clay	765-970
red shale	970-1030
blue and red clay and red gyp	1030-1065
soft blue clay	1065-1102
red clay and shale	1102-1140
sand stone and salt water, quick sand	1140-1233
red clay	1233-1320
12 1/2" casing landed at 1257'	
red clay	1320-1335
brown shale, sandy	1335-1347
red shale, etc.	1347-1460
blue shale	1460-1462
red shale and brown rock	1462-1630
brown sand stone	1630-1645
hard sharp sand	1646-1690
red clay	1690-1700
blue shale	1700-1702
red shale	1702-1717
red shale, soft	1717-1725
hard lime, shale	1725-1730
landed 10" casing, shut off water 1720	
red clay sand and blue streaks	1730-1850
water sand, hard	1850-1852
red clay and shale and blue streaks	1852-1930
red shale with hard shells	1930-1948
hard shell	1948-1951
blue shale	1951-1952
red shale with hard streaks	1952-2032

Company

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Sec 3

T. 35

R.

34W

Farm Boles

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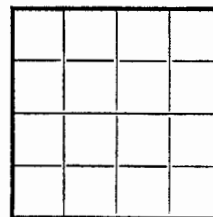
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20 in.	10 in
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Elevation

Production

Figures Indicate Bottom of Formation

hard red shell	2032-2034
red clay with streaks gyp	2034-2055
blue clay	2055-2060
red shale	2060-2077
hard shell	2077-2079
red shell	2079-2102
blue shale	2102-2108
red clay and shale	2108-2160
red rock	2160-2168
Bottom of the red beds/	
blue shale	2168-2245
blue shell with shells, gritty	2245-2247
blue shale	2247-2264
blue shale and sandy lime shells	2264-2290
blue shale	2290-2300
blue shale and lime shale	2300-2372
hard shell	2372-2380
blue shale	2380-2400
lime shells and blue shale	2400-2405
lime shells	2405-2410
blue shale	2410-2421
hard lime	2421-2432
same, softer	2432-2475
soft white and pink water	2475-2485
blue shale and lime streaks	2485-2501
hard lime shell	2501-2509
blue shale	2509-2538
hard lime shell	2538-2545
hard lime	2545-2574
landed 8" casing at 2570'	
blue shale	2574-2581
sandy lime, changing to sand	2581-2585
showing of gas and oil at 2585	
blue shale	2585-2600
white lime	2600-2610
blue shale	2610-2650
sandy greasy shale	2650-2680
gas burned 4" over the top of pipe	
hard grey lime	2680-2705
black slate and shell	2705-2716
gas sand	2716-2755
from five to ten million feet of gas	
brown shale	2755-2770
hard shell	2770-2784
water sand (1/8 Bbl. per hour)	2784-2794

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10 in

15 1/2

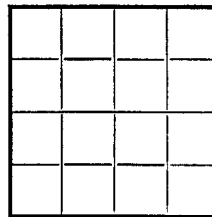
8 1/4

12 1/2

6 5/8

13 3/8

5 3/16



Elevation

Production

Figures Indicate Bottom of Formation

lime

2794-2814

blue shale

2814-2825

hard lime

2825-2845

sandy shale

2845-2847

hard lime

2847-2908

salt water sand, lots of water

2908-2919

blue shale

Plugged back to bottom and cemented at 2758' to shut off water.

Estimated volume of gas 5,000,000 cubic feet. Rock pressure 650 lbs. per square inch. High content methane ?????????