

**GEOLOGICAL DEPARTMENT  
UNION GAS CORPORATION  
INDEPENDENCE, KANSAS**

**36-13-23E**

Company **Smith et al**

S. T. R.  
County  
State  
Lease and  
Well No.

**36-13-23  
Johnson  
Kansas  
Town Lot #1**

Contractor

Drilling Commenced **10/13/29**

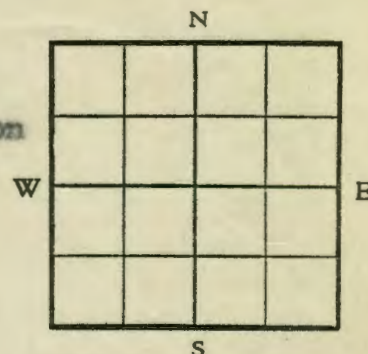
Drilling Completed **11/1/29**

Initial Production **Dry Hole**

Initial Rock Pressure

Location **234' E. and 105' N. of the intersection  
at water and cedar streets.**

Casing **8 1/2" 18 1/2"**



**Driller's Record of Formations**

	<b>soil</b>	<b>3</b>		<b>6</b>	<b>lime</b>	<b>553</b>
<b>4</b>	<b>clay yellow</b>	<b>7</b>		<b>2</b>	<b>shale blue</b>	<b>555</b>
<b>5</b>	<b>sandstone</b>	<b>12</b>		<b>1</b>	<b>shale</b>	<b>556</b>
<b>3</b>	<b>shale</b>	<b>15</b>		<b>6</b>	<b>lime</b>	<b>562</b>
<b>16</b>	<b>lime</b>	<b>31</b>		<b>18</b>	<b>shale</b>	<b>580</b>
<b>5</b>	<b>shale black</b>	<b>38</b>		<b>5</b>	<b>lime hard</b>	<b>585</b>
<b>6</b>	<b>lime</b>	<b>42</b>		<b>4</b>	<b>shale black</b>	<b>589</b>
<b>12</b>	<b>shale</b>	<b>54</b>		<b>2</b>	<b>lime</b>	<b>591</b>
<b>14</b>	<b>lime</b>	<b>68</b>		<b>3</b>	<b>shale blue</b>	<b>594</b>
<b>20</b>	<b>shale</b>	<b>88</b>		<b>6</b>	<b>lime</b>	<b>600</b>
<b>37</b>	<b>lime</b>	<b>125</b>		<b>5</b>	<b>red rock</b>	<b>605</b>
<b>60</b>	<b>shale</b>	<b>185</b>		<b>10</b>	<b>shale blue</b>	<b>615</b>
<b>17</b>	<b>lime</b>	<b>202</b>		<b>17</b>	<b>shale dark</b>	<b>632</b>
<b>16</b>	<b>shale</b>	<b>218</b>		<b>4</b>	<b>lime</b>	<b>636</b>
<b>10</b>	<b>lime</b>	<b>228</b>		<b>4</b>	<b>shale blue</b>	<b>640</b>
<b>3</b>	<b>shale</b>	<b>231</b>		<b>35</b>	<b>shale light sandy</b>	<b>675</b>
<b>8</b>	<b>lime</b>	<b>239</b>		<b>10</b>	<b>sand</b>	<b>685 water</b>
<b>30</b>	<b>shale</b>	<b>269</b>	<b>show of red rock</b>			
<b>6</b>	<b>lime</b>	<b>275</b>		<b>45</b>	<b>shale dark</b>	<b>730</b>
<b>3</b>	<b>shale black</b>	<b>280</b>		<b>20</b>	<b>shale light</b>	<b>750</b>
<b>12</b>	<b>lime</b>	<b>292</b>		<b>5</b>	<b>red rock</b>	<b>755</b>
<b>3</b>	<b>shale</b>	<b>295</b>		<b>5</b>	<b>shale blue</b>	<b>760</b>
<b>15</b>	<b>lime</b>	<b>310</b>		<b>3</b>	<b>shale black</b>	<b>763</b>
<b>4</b>	<b>shale dark</b>	<b>314</b>		<b>17</b>	<b>shale light</b>	<b>780</b>
<b>20</b>	<b>lime</b>	<b>334</b>			<b>T.D.</b>	
<b>6</b>	<b>shale dark</b>	<b>340</b>				
<b>2</b>	<b>lime</b>	<b>342</b>				
<b>4</b>	<b>shale dark</b>	<b>346</b>				
<b>1</b>	<b>lime</b>	<b>347</b>	<b>6 1/2" pipe</b>			
<b>7</b>	<b>lime</b>	<b>354</b>				
<b>3</b>	<b>shale</b>	<b>357</b>				
<b>6</b>	<b>red rock</b>	<b>363</b>				
<b>27</b>	<b>shale</b>	<b>390</b>				
<b>100</b>	<b>shale</b>	<b>490</b>	<b>sandy</b>			
<b>15</b>	<b>red rock</b>	<b>505</b>				
<b>25</b>	<b>shale blue</b>	<b>530</b>				
<b>8</b>	<b>shale white</b>	<b>538</b>				