

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>Vera Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>NE-5W-NW-10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Kans</i>	CONTRACTOR <i>A. D. Ferrell</i>
		DATE <i>11-30-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>1300</i>	<i>1301</i>	<i>2.40</i>	<i>2.43</i>	<i>3</i>	
	<i>02</i>		<i>2.46</i>	<i>3</i>	
	<i>03</i>		<i>2.48</i>	<i>2</i>	
	<i>04</i>		<i>2.50</i>	<i>2</i>	
	<i>05</i>		<i>2.51</i>	<i>1</i>	
	<i>06</i>		<i>2.54</i>	<i>3</i>	
	<i>07</i>		<i>2.56</i>	<i>2</i>	
	<i>08</i>		<i>2.59</i>	<i>3</i>	
	<i>09</i>		<i>3.01</i>	<i>2</i>	
	<i>1310</i>		<i>3.03</i>	<i>2</i>	
	<i>11</i>		<i>3.05</i>	<i>2</i>	
	<i>12</i>		<i>3.07</i>	<i>2</i>	
	<i>13</i>		<i>3.09</i>	<i>2</i>	
	<i>14</i>		<i>3.10</i>	<i>1</i>	
	<i>15</i>		<i>3.11</i>	<i>1</i>	
	<i>16</i>		<i>3.12</i>	<i>1</i>	
	<i>17</i>		<i>3.13</i>	<i>1</i>	
	<i>18</i>		<i>3.14</i>	<i>1</i>	
	<i>19</i>	<del><i>3.14</i></del>	<i>3.15</i>	<i>1</i>	<i>Get</i>
	<i>1320</i>		<i>3.16</i>	<i>1</i>	
	<i>21</i>		<i>3.17</i>	<i>1</i>	
	<i>22</i>		<i>3.18</i>	<i>1</i>	<i>Co4</i>
	<i>23</i>	<del><i>2.34</i></del>	<i>3.22</i>	<i>1</i>	
	<i>24</i>		<i>3.23</i>	<i>1</i>	
	<i>25</i>		<i>3.24</i>	<i>1</i>	
	<i>26</i>	<i>3.30</i>	<i>3.36</i>	<i>2</i>	<i>rig</i>
	<i>27</i>		<i>3.37</i>	<i>1</i>	
	<i>28</i>		<i>3.38</i>	<i>1</i>	
	<i>29</i>		<i>3.39</i>	<i>1</i>	
	<i>1330</i>		<i>3.41</i>	<i>2</i>	
	<i>31</i>		<i>3.44</i>	<i>3</i>	
	<i>32</i>		<i>3.46</i>	<i>2</i>	
	<i>33</i>		<i>3.47</i>	<i>1</i>	
	<i>34</i>		<i>3.48</i>	<i>1</i>	
	<i>35</i>		<del><i>3.49</i></del>	<i>1</i>	
	<i>36</i>		<i>3.50</i>	<i>1</i>	
	<i>37</i>		<i>3.51</i>	<i>1</i>	
	<i>38</i>		<i>3.53</i>	<i>2</i>	
	<i>39</i>		<i>3.55</i>	<i>2</i>	
	<i>1340</i>		<i>3.56</i>	<i>1</i>	
	<i>41</i>		<i>3.58</i>	<i>2</i>	
	<i>42</i>		<i>3.59</i>	<i>1</i>	
	<i>43</i>		<i>4.00</i>	<i>1</i>	
	<i>44</i>		<i>4.01</i>	<i>1</i>	
	<i>45</i>		<i>4.02</i>	<i>1</i>	
	<i>46</i>		<i>4.03</i>	<i>1</i>	
	<i>47</i>		<i>4.04</i>	<i>1</i>	
	<i>48</i>		<i>4.05</i>	<i>1</i>	
	<i>49</i>		<i>4.06</i>	<i>1</i>	
	<i>1350</i>		<i>4.07</i>	<i>1</i>	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>Wm Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>NE SW NW</i>	DATE <i>10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Kansas</i>	CONTRACTOR <i>V. D. Farrell</i>	DATE <i>11-30-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>13</i>	<i>50</i>	<i>4.07</i>	<i>4.08</i>	<i>1</i>	
	<i>51</i>		<i>4.09</i>	<i>1</i>	
	<i>52</i>		<i>4.11</i>	<i>2</i>	
	<i>53</i>		<i>4.13</i>	<i>2</i>	
	<i>54</i>	<i>4.19</i>	<i>4.20</i>	<i>1</i>	
	<i>55</i>		<i>4.22</i>	<i>2</i>	
	<i>56</i>		<i>4.24</i>	<i>2</i>	
	<i>57</i>		<i>4.26</i>	<i>2</i>	
	<i>58</i>		<i>4.28</i>	<i>2</i>	
	<i>59</i>		<i>4.30</i>	<i>2</i>	
<i>13</i>	<i>60</i>		<i>4.32</i>	<i>2</i>	
	<i>61</i>		<i>4.33</i>	<i>1</i>	
	<i>62</i>		<i>4.35</i>	<i>2</i>	
	<i>63</i>		<i>4.37</i>	<i>2</i>	
	<i>64</i>		<i>4.38</i>	<i>1</i>	
	<i>65</i>				
	<i>66</i>				
	<i>67</i>			<i>1</i>	
	<i>68</i>		<i>4.39</i>		
	<i>69</i>				
<i>13</i>	<i>70</i>			<i>1</i>	
	<i>71</i>		<i>4.40</i>		
	<i>72</i>				
	<i>73</i>				
	<i>74</i>			<i>1</i>	
	<i>75</i>		<i>4.41</i>		
	<i>76</i>				
	<i>77</i>			<i>1</i>	
	<i>78</i>				
	<i>79</i>				
<i>13</i>	<i>80</i>		<i>4.42</i>		
	<i>81</i>				
	<i>82</i>			<i>1</i>	
	<i>83</i>				
	<i>84</i>		<i>4.43</i>		
	<i>85</i>	<i>4.52</i>	<i>4.53</i>	<i>1</i>	<i>COM</i>
	<i>86</i>		<i>4.54</i>	<i>1</i>	
	<i>87</i>		<i>4.55</i>	<i>1</i>	
	<i>88</i>		<i>4.56</i>	<i>1</i>	
	<i>89</i>		<i>4.57</i>	<i>1</i>	
<i>13</i>	<i>90</i>		<i>4.58</i>	<i>1</i>	
	<i>91</i>		<i>5.02</i>	<i>4</i>	
	<i>92</i>		<i>5.04</i>	<i>2</i>	
	<i>93</i>		<i>5.06</i>	<i>2</i>	
	<i>94</i>		<i>5.07</i>	<i>1</i>	
	<i>95</i>		<i>5.09</i>	<i>2</i>	
	<i>96</i>		<i>5.11</i>	<i>2</i>	
	<i>97</i>		<i>5.13</i>	<i>2</i>	
	<i>98</i>		<i>5.15</i>	<i>2</i>	
	<i>99</i>		<i>5.17</i>	<i>2</i>	
<i>14</i>	<i>00</i>		<i>5.19</i>	<i>2</i>	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>W. C. Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>NE 1/4 Sec 10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Kansas</i>	CONTRACTOR <i>C. D. Perrell</i>
		DATE <i>11-30-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>12</i>	<i>00</i>	<i>5.19</i>	<i>5.20</i>	<i>1</i>	
	<i>1</i>		<i>5.21</i>	<i>1</i>	
	<i>2</i>		<i>5.22</i>	<i>1</i>	
	<i>3</i>		<i>5.23</i>	<i>1</i>	
	<i>4</i>		<i>5.24</i>	<i>1</i>	
	<i>5</i>		<i>5.25</i>	<i>1</i>	
	<i>6</i>		<i>5.26</i>	<i>1</i>	
	<i>7</i>		<i>5.27</i>	<i>1</i>	
	<i>08</i>		<i>5.28</i>	<i>1</i>	
	<i>09</i>		<i>5.30</i>	<i>2</i>	
	<i>10</i>		<i>5.32</i>	<i>2</i>	
	<i>11</i>		<i>5.34</i>	<i>2</i>	
	<i>12</i>		<i>5.35</i>	<i>1</i>	
	<i>13</i>		<i>5.36</i>	<i>1</i>	
	<i>14</i>		<i>5.37</i>	<i>1</i>	
	<i>15</i>		<i>5.43</i>	<i>1</i>	<i>Con</i>
	<i>16</i>		<i>5.44</i>	<i>1</i>	
	<i>17</i>		<i>5.45</i>	<i>1</i>	
	<i>18</i>		<i>5.46</i>	<i>1</i>	
	<i>19</i>		<i>5.47</i>	<i>1</i>	
	<i>14 20</i>		<i>5.48</i>	<i>1</i>	
	<i>21</i>				
	<i>22</i>				
	<i>23</i>			<i>1</i>	
	<i>24</i>				
	<i>25</i>		<i>5.49</i>		
	<i>26</i>				
	<i>27</i>			<i>1</i>	
	<i>28</i>				
	<i>129</i>		<i>8.50</i>		
	<i>14 30</i>		<i>8.52</i>	<i>2</i>	
	<i>31</i>		<i>5.53</i>	<i>1</i>	
	<i>32</i>		<i>5.54</i>	<i>1</i>	
	<i>33</i>		<i>5.55</i>	<i>1</i>	
	<i>34</i>		<i>5.56</i>	<i>1</i>	
	<i>35</i>		<i>5.58</i>	<i>2</i>	
	<i>36</i>		<i>5.59</i>	<i>1</i>	
	<i>37</i>		<i>6.00</i>	<i>1</i>	
	<i>38</i>		<i>6.01</i>	<i>1</i>	
	<i>39</i>		<i>6.02</i>	<i>1</i>	
	<i>14 40</i>		<i>6.03</i>	<i>1</i>	
	<i>41</i>		<i>6.05</i>	<i>2</i>	
	<i>42</i>		<i>6.06</i>	<i>1</i>	
	<i>43</i>		<i>6.08</i>	<i>2</i>	
	<i>44</i>		<i>6.09</i>	<i>1</i>	
	<i>45</i>		<i>6.10</i>	<i>1</i>	
	<i>46</i>	<i>6.17</i>	<i>6.18</i>	<i>1</i>	
	<i>47</i>		<i>6.20</i>	<i>2</i>	
	<i>48</i>		<i>6.22</i>	<i>2</i>	
	<i>49</i>		<i>6.24</i>	<i>2</i>	
	<i>14 50</i>		<i>6.26</i>	<i>2</i>	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>Van Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>7E SW 7W - 10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Kansas</i>	CONTRACTOR <i>J. D. Farrell</i>
		DATE <i>11-30-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>14.50</i>	<i>51</i>	<i>6.26</i>	<i>6.27</i>	<i>1</i>	
	<i>52</i>		<i>6.28</i>	<i>1</i>	
	<i>53</i>		<i>6.30</i>	<i>2</i>	
	<i>54</i>		<i>6.32</i>	<i>2</i>	
	<i>55</i>		<i>6.34</i>	<i>2</i>	
	<i>56</i>		<i>6.40</i>	<i>6</i>	<i>anhydrite</i>
	<i>57</i>		<i>6.47</i>	<i>7</i>	
	<i>58</i>		<i>6.55</i>	<i>8</i>	
	<i>59</i>		<i>7.03</i>	<i>8</i>	
	<i>14.60</i>		<i>7.11</i>	<i>8</i>	
	<i>61</i>		<i>7.18</i>	<i>7</i>	
	<i>62</i>		<i>7.23</i>	<i>5</i>	
	<i>63</i>		<i>7.29</i>	<i>6</i>	
	<i>64</i>		<i>7.35</i>	<i>6</i>	
	<i>65</i>		<i>7.41</i>	<i>6</i>	
	<i>66</i>		<i>7.47</i>	<i>6</i>	
	<i>67</i>		<i>7.54</i>	<i>7</i>	
	<i>68</i>		<i>8.00</i>	<i>6</i>	
	<i>69</i>		<i>8.06</i>	<i>6</i>	
	<i>14.70</i>		<i>8.12</i>	<i>6</i>	
	<i>71</i>		<i>8.18</i>	<i>6</i>	
	<i>72</i>		<i>8.24</i>	<i>6</i>	
	<i>73</i>		<i>8.30</i>	<i>6</i>	
	<i>74</i>		<i>8.36</i>	<i>6</i>	
	<i>75</i>		<i>8.43</i>	<i>7</i>	
	<i>76</i>		<i>8.50</i>	<i>7</i>	
	<i>77</i>	<i>9.43</i>	<i>9.49</i>	<i>6</i>	<i>rotary drive chain</i>
	<i>78</i>		<i>9.55</i>	<i>6</i>	
	<i>79</i>		<i>10.01</i>	<i>6</i>	
	<i>14.80</i>		<i>10.06</i>	<i>5</i>	
	<i>81</i>		<i>10.11</i>	<i>5</i>	
	<i>82</i>		<i>10.16</i>	<i>5</i>	
	<i>83</i>		<i>10.21</i>	<i>5</i>	
	<i>84</i>		<i>10.28</i>	<i>7</i>	
	<i>85</i>		<i>10.33</i>	<i>5</i>	
	<i>86</i>				
	<i>87</i>				
	<i>88</i>				
	<i>89</i>				
	<i>14.90</i>				
	<i>91</i>				
	<i>92</i>				
	<i>93</i>				
	<i>94</i>				
	<i>95</i>				
	<i>96</i>				
	<i>97</i>				
	<i>98</i>				
	<i>99</i>				
	<i>15.00</i>				

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Wend Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>10-4-18 NE-SW-NW</i>
COUNTY <i>Phillips</i>	STATE <i>Ko.</i>	CONTRACTOR <i>J. D. Ferrell</i>
		DATE <i>12-1-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2000	2005	4.15	4.20	5	
	10		4.35	15	
	15		4.45	10	
	20		5.00	15	
	25	5.05	5.15	10	
	30		5.22	7	
	35		5.34	12	
	40		5.48	14	
	45		6.07	19	
	2050		6.26	19	
	55	5.34	6.47	13	
	60		7.03	16	
	65		7.26	23	
	70		7.50	24	
	75		8.15	25	
	80		8.50	35	
	85	9.20	9.48	28	Conn & slope test
	90		10:35	47	trip
	95	12:35	1:05	30	
	2100		1:40	35	
	2105		1:56	16	
	10		2:05	11	
	15	2:10	2:15	5	Conn
	20		2:18	3	
	25		2:28	10	
	30		2:38	10	
	35		2:48	10	
	40		3:00	12	
	45		3:12	12	Conn
	2150	3:17	3:25	8	
	55		3:35	10	
	60		3:50	15	
	65		4:02	12	
	70		4:10	8	
	75	4:20	4:30	10	Conn
	80		4:40	10	
	85		5:02	12	
	90		5:22	20	
	95		5:38	16	
	2200		5:48	10	
	2205		6:04	16	
	10	6:10	6:27	17	Conn
	15		6.46	19	
	20		7:12	26	
	25		7.30	28	
	30		7.47	17	
	35		8.01	14	Conn. & 9th Rig.
	40	8.13	8.35	22	
	45		9:01	26	
	2250		9.21	20	

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# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>Vera Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>NE-SW-NW 10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Ks.</i>	CONTRACTOR  
		DATE <i>12-2-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>2250</i>	<i>2255</i>	<i>9:21</i>	<i>9:34</i>	<i>15</i>	<i>C.P.F.S. Start 2090'</i>
	<i>60</i>		<i>9:57</i>	<i>21</i>	
	<i>65</i>		<i>10:19</i>	<i>22</i>	<i>Con. 4 Jet Pile</i>
	<i>70</i>	<i>10:35</i>	<i>11:14</i>	<i>39</i>	
	<i>75</i>		<i>11:34</i>	<i>20</i>	
	<i>80</i>		<i>12:09</i>	<i>35</i>	
	<i>85</i>		<i>12:25</i>	<i>16</i>	
	<i>90</i>		<i>12:50</i>	<i>25</i>	
	<i>95</i>		<i>1:10</i>	<i>20</i>	<i>Trip. Run O.S.C.</i>
<i>2300</i>	<i>2:50</i>	<i>3:15</i>	<i>25</i>		
	<i>05</i>		<i>3:40</i>	<i>25</i>	
	<i>10</i>		<i>3:55</i>	<i>15</i>	
	<i>15</i>		<i>4:05</i>	<i>10</i>	
	<i>20</i>		<i>4:20</i>	<i>15</i>	
	<i>25</i>		<i>4:40</i>	<i>20</i>	
	<i>30</i>	<i>4:50</i>	<i>4:57</i>	<i>7</i>	<i>CON</i>
	<i>35</i>		<i>5:02</i>	<i>5</i>	
	<i>40</i>		<i>5:08</i>	<i>6</i>	
	<i>45</i>		<i>5:15</i>	<i>7</i>	
<i>2350</i>			<i>5:20</i>	<i>5</i>	
	<i>55</i>		<i>5:28</i>	<i>8</i>	
	<i>60</i>	<i>5:34</i>	<i>5:35</i>	<i>8</i>	<i>CON</i>
	<i>65</i>		<i>5:47</i>	<i>8</i>	
	<i>70</i>		<i>5:55</i>	<i>8</i>	
	<i>75</i>		<i>6:03</i>	<i>8</i>	
	<i>80</i>		<i>6:10</i>	<i>7</i>	
	<i>85</i>		<i>6:18</i>	<i>8</i>	
	<i>90</i>	<i>6:25</i>	<i>6:31</i>	<i>6</i>	<i>CON</i>
	<i>95</i>		<i>6:37</i>	<i>6</i>	
<i>2400</i>			<i>6:44</i>	<i>7</i>	
	<i>05</i>		<i>6:55</i>	<i>11</i>	
	<i>10</i>		<i>7:07</i>	<i>12</i>	
	<i>15</i>		<i>7:24</i>	<i>17</i>	
	<i>20</i>	<i>7:30</i>	<i>7:42</i>	<i>12</i>	
	<i>25</i>		<i>8:00</i>	<i>18</i>	<i>CON</i>
	<i>30</i>		<i>8:09</i>	<i>9</i>	
	<i>35</i>		<i>8:31</i>	<i>22</i>	
	<i>40</i>		<i>8:50</i>	<i>19</i>	
	<i>45</i>		<i>9:00</i>	<i>10</i>	
<i>2450</i>	<i>9:08</i>	<i>9:22</i>	<i>14</i>		<i>CON</i>
	<i>55</i>		<i>9:32</i>	<i>10</i>	
	<i>60</i>		<i>9:42</i>	<i>10</i>	
	<i>65</i>		<i>9:54</i>	<i>12</i>	
	<i>70</i>		<i>10:04</i>	<i>10</i>	
	<i>75</i>		<i>10:14</i>	<i>10</i>	
	<i>80</i>	<i>10:48</i>	<i>11:00</i>	<i>12</i>	<i>repair rotary chain</i>
	<i>85</i>	<i>11:10</i>	<i>11:25</i>	<i>15</i>	<i>CON</i>
	<i>90</i>		<i>11:40</i>	<i>15</i>	
	<i>95</i>		<i>11:55</i>	<i>15</i>	
<i>2500</i>			<i>12:20</i>	<i>20</i>	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

2500-2750

NAPCO-23A

## NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		
COUNTY		STATE	CONTRACTOR	DATE	
Near Cornsick		1	Sec-10-T4-R10	NE-SW-NW	
Pulaski		Kansas	J. W. Howell	12-3-51	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2500	2505	12:20	12:35	15	
	10		12:50	15	
	15	1:05	1:15	10	Conn + Rig
	20		1:45	30	
	25		1:55	10	
	30		2:15	20	
	35		2:35	20	
	40		2:55	20	
	45	3:05	3:25	20	Conn
2550	50		3:40	15	
	55		4:00	20	
	60		4:25	25	
	65		4:40	15	
	70		5:15	35	
	75	5:25	5:45	20	Conn
	80		6:00	15	
	85		6:20	20	
	90		6:40	20	
	95		7:00	20	
2600	100		7:20	20	Conn. & Rig.
	05	7:40	8:05	25	
	10		8:25	20	
	15		8:45	20	
	20		9:20	35	
	25		9:45	25	
	30		10:10	25	Conn. & Rig. Pits
	35	10:25	10:47	22	
	40		11:10	23	
	45		11:35	25	
2650	50		11:57	22	
	55		12:27	30	
	60		12:50	23	Conn. & Slope test
	65	1:25	1:50	25	
	70		2:13	23	
	75		2:40	27	
	80		3:12	32	
	85		3:32	20	
	90		4:02	30	
	95	4:12	4:26	14	10 min Conn.
2700	100		4:34	8	
	05		4:47	13	
	10		5:05	17	
	15		5:21	16	
	20		5:30	9	9 min Conn -
	25	5:39	5:49	10	
	30		5:59	10	
	35		6:17	18	
	40		6:37	20	
	45		7:07	30	
2750	50		7:37	30	

NS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma. Have not been picked up at the well by the Geologist.

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
FROM <i>Hera Emericks</i> WELL NO. <i>1</i> LOCATION <i>10-11-18 NE-211-711</i> COUNTY <i>Phillips</i> STATE <i>Kanana</i> CONTRACTOR <i>V. D. Russell</i> DATE <i>12-3-51</i>					
27.50	55	7.37	8.00	23	Conn 8 min
	60	8.08	8.36	24	
	65		9.03	27	
	70		9.20	17	
	75		9.40	20	
	80		10.15	35	TRIP FOR BIT, RUN 0W 5.
	85	1:00	1:20	20	2 hrs. 45 min.
	90	1:35	1:45	10	CONN + Rig
	95		2:05	20	
	2800		2:25	20	
	5		2:50	25	
	10		2:20	30	
	15		3:40	20	
	20	3:48	4:00	12	CONN 8 min.
	25		4:15	15	
	30		4:43	28	
	35		5:12	29	
	40		5:36	24	
	45		5:48	12	
	28 50	5:55	6:00	5	CONN 7 min
	55		6:25	25	
	60		6:47	22	
	65		7:05	18	
	70		7:22	17	
	75		7:42	20	12 min. Conn & Rig
	80	7.54	8.17	23	
	85		8:38	21	Set Pits, Start mixing
	90	8.55	9.17	22	fluid. 17 min.
	95		9.26	9	
	2900		9.35	9	
	01		9.37	2	Conn. 6 min.
	02		9.40	3	
	03		9.48	8	
	04		9.55	7	
	29 05		10.02	7	
	06	10.08	10.14	6	
	07		10.21	7	
	08		10.28	7	
	09		10.35	7	
	29 10		10.41	6	
	11		10.49	8	
	12		10.55	6	
	13		11.00	5	
	14		11.08	8	
	29 15		11.15	8	
	16		11.21	6	
	17		11.28	7	
	18		11.36	8	
	19		11.41	5	
	29 20		11.46	5	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>Hera Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>NE-SW-NW-10-4-18</i>	
COUNTY <i>Phillips</i>	STATE <i>Kans</i>	CONTRACTOR <i>J. D. Ferrell</i>	DATE <i>12-4-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>2920</i>	<i>2921</i>	<i>11:46</i>	<i>11:54</i>	<i>8</i>	<i>O.W.S. in at 2780'</i>
	<i>22</i>		<i>12:03</i>	<i>9</i>	
	<i>23</i>		<i>12:09</i>	<i>6</i>	
	<i>24</i>		<i>12:14</i>	<i>5</i>	
<i>2925</i>			<i>12:18</i>	<i>4</i>	
	<i>26</i>		<i>12:23</i>	<i>5</i>	
	<i>27</i>		<i>12:28</i>	<i>5</i>	
	<i>28</i>		<i>12:33</i>	<i>5</i>	
	<i>29</i>		<i>12:37</i>	<i>4</i>	
<i>2930</i>			<i>12:44</i>	<i>7</i>	
	<i>31</i>		<i>12:51</i>	<i>7</i>	
	<i>32</i>	<i>11:40</i>	<i>11:49</i>	<i>9</i>	<i>Came out of Hole to Repair Rotary Drive shaft Bearing &amp; chain.</i>
	<i>33</i>		<i>11:54</i>	<i>5</i>	<i>(O.W.S. in at 2931')</i>
	<i>34</i>		<i>11:56</i>	<i>2</i>	
<i>2935</i>			<i>12:02</i>	<i>5</i>	
	<i>36</i>		<i>12:05</i>	<i>4</i>	
	<i>37</i>		<i>12:08</i>	<i>3</i>	
	<i>38</i>		<i>12:11</i>	<i>3</i>	
	<i>39</i>	<i>12:16</i>	<i>12:19</i>	<i>3</i>	<i>Conn.</i>
<i>2940</i>			<i>12:24</i>	<i>5</i>	
	<i>41</i>		<i>12:29</i>	<i>5</i>	
	<i>42</i>		<i>12:34</i>	<i>5</i>	
	<i>43</i>		<i>12:41</i>	<i>7</i>	
	<i>44</i>		<i>12:43</i>	<i>2</i>	
<i>2945</i>			<i>12:47</i>	<i>4</i>	
	<i>46</i>		<i>12:53</i>	<i>6</i>	<i>S.R.</i>
	<i>47</i>		<i>12:58</i>	<i>5</i>	
	<i>48</i>		<i>1:02</i>	<i>4</i>	
	<i>49</i>		<i>1:06</i>	<i>4</i>	
<i>2950</i>			<i>1:09</i>	<i>3</i>	
	<i>51</i>		<i>1:12</i>	<i>3</i>	
	<i>52</i>		<i>1:14</i>	<i>2</i>	
	<i>53</i>		<i>1:16</i>	<i>2</i>	
	<i>54</i>		<i>1:18</i>	<i>2</i>	
<i>2955</i>			<i>1:21</i>	<i>3</i>	
	<i>56</i>		<i>1:25</i>	<i>4</i>	
	<i>57</i>		<i>1:28</i>	<i>3</i>	
	<i>58</i>		<i>1:33</i>	<i>5</i>	
	<i>59</i>		<i>1:36</i>	<i>4</i>	
<i>2960</i>			<i>1:40</i>	<i>4</i>	
	<i>61</i>		<i>1:43</i>	<i>3</i>	
	<i>62</i>		<i>1:46</i>	<i>3</i>	
	<i>63</i>		<i>1:49</i>	<i>3</i>	
	<i>64</i>		<i>1:53</i>	<i>4</i>	
<i>2965</i>			<i>1:58</i>	<i>5</i>	
	<i>66</i>		<i>2:02</i>	<i>4</i>	
	<i>67</i>		<i>2:05</i>	<i>3</i>	
	<i>68</i>		<i>2:08</i>	<i>3</i>	
	<i>69</i>	<i>2:15</i>	<i>2:19</i>	<i>4</i>	<i>Conn.</i>
<i>2970</i>			<i>2:23</i>	<i>4</i>	

INSTRUCTIONS: Fill out this report in TRIPPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		
COUNTY		STATE	CONTRACTOR	DATE	
Vera Emrich		1	NE-SW-NW	10-4-18	
Phillips		Kansas	J.D. Ferrall	12-5-51	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2970	71	2:23	2:27	4	O.W.S. in @ 2931   11:40 PM.   12-4-51
	72		2:31	4	
	73		2:35	4	
	74		2:40	5	
29	75		2:45	5	
	76		2:51	6	
	77		2:58	7	
	78		3:05	7	
	79		3:11	6	
29	80		3:17	6	Vis 44
	81		3:22	5	
	82		3:25	3	
	83		3:30	5	
	84		3:34	4	
29	85		3:41	7	
	86		3:48	7	
	87		3:55	7	
	88		4:03	8	
	89		4:09	6	
29	90		4:16	7	
	91		4:22	6	
	92		4:28	6	
	93		4:34	6	
	94		4:40	6	
29	95		4:44	4	
	96		4:50	6	
	97		4:57	7	
	98		5:00	3	
	99	5:07	5:10	3	Conn.
3000			5:13	3	
	01		5:14	1	
	02		5:15	1	
	03		5:16	1	
	04		5:18	2	
3005			5:19	1	
	06		5:20	1	
	07		5:21	1	
	08		5:21 1/2	1 1/2	
	09		5:22	1 1/2	
30	10		5:24	2	
	11		5:25	1	
	12		5:26	1	
	13		5:26 1/2	1 1/2	
	14		5:27 1/2	1 1/2	
30	15		5:28 1/2	1 1/2	
	16		5:30	1 1/2	
	17		5:31	1	
	18		5:34	3	
	19		5:38	4	
30	20		5:44	6	Vis-35 WT-10-1 Circ For Sample to 7:39 AM

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.



# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		
Vera Emrich		1	NE-SW-NW-10-4-18		
COUNTY	STATE	CONTRACTOR		DATE	
Phillips	Kanso	J. W. Ferrell		10-5-51	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3070	3071	12:54	1:00	6	O.W.S. in at 2931 ft.
	72		1:07	7	
	73		1:16	7	
	74		1:25	9	
	3075		1:38	13	
	76		1:51	13	Circ. & D. & Test at 3052-7
	77	10:30	10:38	8	
	78		10:46	8	
	79		10:56	6	
	3080		11:00	9	
	81	11:10	11:28	9	Change watches
	82		11:39	11	
	83		11:47	8	
	84		11:54	7	
	3085		12:00	6	
	86		12:06	6	
	87		12:11	5	
	88		12:16	5	
	89		12:20	4	
	3090		12:25	5	
	91	12:35	12:39	4	Conn. + Rig
	92		12:44	5	
	93		12:52	8	
	94		1:04	12	
	3095		1:11	7	
	96		1:21	10	
	97		1:31	10	
	98		1:40	9	
	99		1:50	10	
	3100		1:59	9	
	01		2:07	8	
	02		2:18	11	Circ. For samples 1 1/2 hrs
	03	3:50	4:00	8	
	04		4:10	12	
	3105		4:22	10	
	06		4:30	8	
	07		4:35	5	
	08		4:40	5	
	09		4:48	8	
	3110		5:02	14	
	11		5:11	9	
	12		5:18	7	
	13		5:25	7	
	14		5:31	6	
	3115		5:36	5	
	16		5:41	5	
	17		5:46	5	
	18		5:50	4	
	19		5:58	8	
	3120		6:07	9	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		
<i>Vera Emersick</i>		#1	<i>10-4-10 NE-SW-NW</i>		
COUNTY	STATE	CONTRACTOR		DATE	
<i>Phillips</i>	<i>Kansas</i>	<i>J. L. Jewell</i>		<i>12-6-51</i>	
DEPTH	DRILLING TIME		ACTUAL TIME	REMARKS	
	FROM	TO			BEGAN
<i>3120</i>	<i>3121</i>	<i>6:07</i>	<i>6:11</i>	<i>4</i>	
	<i>22</i>	<i>6:18</i>	<i>6:22</i>	<i>4</i>	<i>Conn.</i>
	<i>23</i>		<i>6:25</i>	<i>3</i>	
	<i>24</i>		<i>6:31</i>	<i>6</i>	
	<i>3125</i>		<i>6:38</i>	<i>7</i>	
	<i>26</i>		<i>6:44</i>	<i>6</i>	
	<i>27</i>		<i>6:50</i>	<i>6</i>	
	<i>28</i>		<i>6:56</i>	<i>6</i>	
	<i>29</i>		<i>7:03</i>	<i>7</i>	
	<i>3130</i>		<i>7:10</i>	<i>7</i>	
	<i>31</i>		<i>7:16</i>	<i>6</i>	
	<i>32</i>		<i>7:21</i>	<i>5</i>	
	<i>33</i>		<i>7:27</i>	<i>6</i>	
	<i>34</i>		<i>7:33</i>	<i>6</i>	
	<i>3135</i>		<i>7:41</i>	<i>8</i>	
	<i>36</i>		<i>7:52</i>	<i>11</i>	
	<i>37</i>		<i>8:04</i>	<i>12</i>	
	<i>38</i>		<i>8:13</i>	<i>9</i>	
	<i>39</i>		<i>8:23</i>	<i>10</i>	
	<i>3140</i>		<i>8:33</i>	<i>10</i>	<i>Run 1 hr. 35 min. at 3140'</i>
	<i>41</i>	<i>10:08</i>	<i>10:20</i>	<i>12</i>	
	<i>42</i>		<i>10:32</i>	<i>12</i>	
	<i>43</i>		<i>10:43</i>	<i>11</i>	
	<i>44</i>		<i>10:49</i>	<i>6</i>	
	<i>3145</i>		<i>10:55</i>	<i>6</i>	
	<i>46</i>		<i>11:00</i>	<i>5</i>	
	<i>47</i>		<i>11:06</i>	<i>6</i>	
	<i>48</i>		<i>11:13</i>	<i>7</i>	
	<i>49</i>		<i>11:21</i>	<i>8</i>	
	<i>3150</i>		<i>11:34</i>	<i>13</i>	
	<i>51</i>		<i>11:44</i>	<i>10</i>	
	<i>52</i>		<i>11:54</i>	<i>10</i>	<i>Conn. &amp; Rig. 8 min.</i>
	<i>53</i>	<i>12:02</i>	<i>12:12</i>	<i>10</i>	
	<i>54</i>		<i>12:19</i>	<i>9</i>	
	<i>3155</i>		<i>12:29</i>	<i>10</i>	
	<i>56</i>		<i>12:41</i>	<i>12</i>	
	<i>57</i>		<i>12:54</i>	<i>13</i>	
	<i>58</i>		<i>1:04</i>	<i>10</i>	<i>Vis. 37 sec.</i>
	<i>59</i>		<i>1:14</i>	<i>10</i>	
	<i>3160</i>		<i>1:28</i>	<i>14</i>	
	<i>61</i>		<i>1:39</i>	<i>11</i>	
	<i>62</i>		<i>1:49</i>	<i>10</i>	
	<i>63</i>		<i>1:59</i>	<i>10</i>	
	<i>64</i>		<i>2:11</i>	<i>12</i>	
	<i>3165</i>		<i>2:24</i>	<i>13</i>	
	<i>66</i>		<i>2:36</i>	<i>12</i>	
	<i>67</i>		<i>2:46</i>	<i>10</i>	
	<i>68</i>		<i>2:57</i>	<i>11</i>	
	<i>69</i>		<i>3:06</i>	<i>9</i>	
	<i>3170</i>		<i>3:15</i>	<i>9</i>	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible & accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

## TIME LOG

FARM <i>Vera Cmelich</i>	WELL NO. <i>1</i>	LOCATION <i>NE-SW-NW-10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Ks</i>	CONTRACTOR <i>J. D. Fenell</i>
		DATE <i>12-6-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3170	3171	3:15	3:25	10	
	72		3:35	10	
	73		3:48	13	
	74		4:00	12	
	3175		4:10	10	
	76		4:22	12	
	77		4:32	10	
	78		4:41	9	
	79		4:51	10	
	3180		5:00	9	
	81		5:08	8	
	82		5:14	6	
	83	5:22	5:28	6	Comm
	84		5:35	7	
	3185		5:42	7	
	86		5:48	6	
	87		5:55	7	Vis. 36
	88		6:02	7	
	89		6:11	9	
	3190		6:19	8	
	91		6:30	11	
	92		6:40	10	
	93		6:52	12	
	94		6:55	3	
	3195		7:02	7	
	96		7:13	11	
	97		7:22	9	
	98		7:32	12	
	99		7:46	12	
	3200		7:56	10	
	01		8:04	8	
	02		8:10	6	
	03		8:16	6	
	04		8:23	7	
	3205		8:30	7	Vis 37 Circ 1 1/2 hrs @ 3205 +
	06	1:00	1:08	8	trip. For bit
	07	Am.	1:13	5	On bottom with bit no 7 hrs @ 1:00
	08		1:18	5	Am.
	09		1:22	4	
	3210		1:30	8	
	11		1:40	10	
	12		1:48	8	
	13		1:55	7	
	14	2:02	2:07	5	Comm + Rig
	3215		2:12	5	
	16		2:18	6	
	17		2:23	5	
	18		2:29	6	
	19		2:34	5	
	3220		2:39	5	

INSTRUCTIONS: Fill out this report in TRIPPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		
Vera Connerick		#1	NE-SW-NW	10-4-18	
COUNTY	STATE	CONTRACTOR	DATE		
Phillips	Kansas	J. D. Ferrell	12-7-51		
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3220	21	2:39	2:44	5	
	22		2:53	9	
	23		2:57	4	
	24		3:02	5	
3225	25		3:09	7	
	26		3:12	3	AM: Circ. 2hr Fat samples + 1hr
	27	12:40	12:46	6	PM: Fat test #2 came out of hole
	28		12:53	7	
	29		1:01	8	
3230	30		1:08	7	
	31		1:13	5	
	32		1:17	4	
	33		1:20	3	
	34		1:27	7	
3235	35		1:31	4	
	36		1:35	4	
	37		1:40	5	
	38		1:45	5	
	39		1:51	6	
3240	40		1:57	6	Conn & Jet.
	41	2:09	2:14	5	
	42		2:21	7	
	43		2:29	8	
	44		2:33	4	
3245	45		2:39	6	
	46		2:46	7	
	47		2:53	7	
	48		3:00	7	
	49		3:07	7	
3250	50		3:13	6	
	51		3:19	6	
	52		3:25	6	
	53		3:30	5	
	54		3:38	8	
3255	55		3:46	8	
	56		3:53	7	
	57		4:02	9	
	58		4:09	7	
	59		4:15	6	
3260	60		4:23	8	
	61		4:32	9	
	62		4:41	9	
	63		4:50	9	
Shut down	64		4:55	5	
3265	65		5:00	5	
	66		5:05	5	
	67		5:10	5	
	68		5:20	10	
	69		5:29	9	
3270	70		5:33	4	

ANS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma. Have not been picked up at the well by the Geologist.

3271-3320

NAPCO-23A

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
	71		5.36	3	
	72		5.39	3	
	73		5.49	10	
	74		5.54	5	
	75	6.01	6.06	5	
	76		6.14	8	
	77		6.20	6	
	78		6.26	6	Circ 1 1/2 hrs
	79	8.05	8.08	3	
	80		8.14	6	V.S. 35
	81		8.19	5	
	82		8.22	3	
	83		8.27	5	
	84		8.32	6	
	85		8.38	5	rough
	86		8.42	4	
	87		8.48	6	
	88		9.00	12	
	89		9.10	10	
	90		9.20	10	
	91		9.30	10	
	92		9.42	12	
	93		9.55	13	V.S. 35
	94		10.05	10	
	95		10.17	12	
	96		10.28	11	
	97		10.39	11	
	98		10.50	11	
	99		10.59	9	
	00		11.04	5	
	1		11.12	8	
	2		11.20	8	
	3		11.29	9	
	4		11.35	6	
	5		11.41	6	
	6	11.47	11.52	9	ROMM
	7		12.02	10	
	8		12.07	5	
	9		12.15	8	
	10		12.25	10	
	11		12.36	11	
	12		12.47	11	
	13		12.59	12	
	14		1.10	11	
	15		1.20	10	Slight odor
	16		1.30	10	Circ For Sample 1-hr 1-hr For
	17	11.40	11.45	7	AM. DST. #3
	18		11.54	7	
	19		12.00	6	
	20		12.04	4	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked-up at the well by the Geologist.

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NAPCO-23A

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Vera Emerick</i>	WELL NO. <i>1</i>	LOCATION <i>NE-SW-N.W. 10-4-18</i>
COUNTY <i>Phillips</i>	STATE <i>Ks.</i>	CONTRACTOR <i>A.D. Ferrell</i>
		DATE <i>12-8-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
20	21	12.04	12.09	5	W. 7 in at #3 A. S. T.
	22		12.14	5	
	23		12.19	5	
	24		12.27	8	
	25		12.36	9	
	26		12.44	8	
	27		12.50	6	
	28		12.56	6	
	29		1.02	6	
	30		1.10	8	
	31		1.18	8	
	32		1.26	8	
	33		1.32	6	8 min. Pump
	34	1.40	1.44	4	Con. 6 min.
	35		1.47	3	
	36	1.53	1.55	2	
	37		1.59	4	
	38		2.03	4	
	39		2.08	5	
	40		2.13	5	
	41		2.17	4	
	42		2.23	6	
	43		2.28	5	
	44		2.33	5	
	45		2.37	4	
	46		2.45	8	
	47		2.52	7	
S.D.	48		3.00	8	Cir. for samples.
	49	4.39	4.44	5	
	50		4.51	7	
	51		4.58	7	
	52		5.06	8	
	53		5.16	10	
	54		5.23	7	
	55		5.30	7	
	56		5.37	7	
	57		5.45	8	
	58		5.52	7	
	59		5.57	5	
	60		6.03	7	
	61		6.10	7	
	62		6.18	8	
	63		6.24	8	
	64		6.30	6	
	65		6.36	6	
	66		6.42	6	
	67	6.50	6.55	5	Con
	68		7.00	5	
	69		7.07	7	
	70		7.14	7	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

3371-3420

NAPCO-23A

## NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		DATE
COUNTY		STATE	CONTRACTOR		
Vera Emerick		1	NE 1/4 NW-10-4-18		12-8-51
Phillips		Kansas	J. D. Dorell		
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
	71	7:14	7:23	9	
	72		7:30	7	
	73		7:37	7	
	74	9:12	9:16	4	Circ 1 1/2 hrs
	75		9:20	4	
	76		9:24	4	
	77		9:30	6	
	78		9:34	4	
	79		9:38	4	
	80		9:40	2	
	81		9:42	2	Circ 1 1/2 hrs.
	82	11:13	11:14	1	
	83		11:15	1	
	84		11:17	2	
	85		11:19	2	
	86		11:21	2	
	87	11:27	11:29	2	Change water log
	88		11:30	1	
	89		11:31	1	
	90		11:34	3	
	91		11:36	2	
	92		11:38	2	
	93		11:40	2	
	94		11:43	3	
	95		11:49	6	
	96		11:54	5	
	97	12:01	12:06	5	Conn
	98		12:12	6	
	99		12:20	8	
34	00		12:26	6	
	1		12:31	5	
	2		12:37	6	
	3		12:43	6	
	4		12:49	6	
	5		12:55	6	
	6		12:00	5	
	7		1:07	7	
	8		1:15	8	S. R.
	9		1:23	8	" "
	10		1:28	5	
	11		1:34	6	
	12		1:42	8	
	13		1:50	8	
	14		1:57	7	
	15		2:05	8	
	16		2:13	8	
	17		2:21	8	
	18		2:29	8	
	19		2:36	7	
	20		2:42	6	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

3421-3470

NAPCO-23A

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Vera Emeric</i>	WELL NO. <i>#1</i>	LOCATION <i>No. SW-NW 10-4-19</i>
COUNTY <i>Phillips</i>	STATE <i>Kansas</i>	CONTRACTOR <i>W. Ferrell</i>
		DATE <i>12-9-51</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
	21	2:42	2:52	10	<i>W-7 in @ #3 DST.</i>
	22		3:01	9	
	23		3:09	9	
	24		3:16	7	
	25		3:22	6	
	26		3:28	6	
	27	3:32	3:40	8	<i>Conn.</i>
	28		3:48	8	
	29		3:55	7	<i>S. R.</i>
	30		4:02	7	<i>" "</i>
	31		4:10	8	
	32		4:16	6	<i>ROU-4</i>
	33		4:22	6	<i>" "</i>
	34		4:29	6	
	35		4:34	6	
	36		4:48	14	
	37		4:55	7	
	38		5:03	8	
	39		5:10	7	
	40		5:17	7	
	41		5:23	6	
	42		5:30	7	
	43		5:36	6	
	44		5:42	6	
	45		5:50	8	<i>S. R.</i>
	46		5:57	7	
	47		6:04	7	
	48		6:08	4	<i>Vis-35. w/9.8</i>
	49		6:14	6	
	50		6:20	6	
	51		6:25	5	
	52		6:33	8	
	53		6:41	8	
	54		6:49	8	
	55		6:59	10	
	56	7:10	7:10	7	<i>CONN</i>
	57		7:23	6	<i>change watches</i>
	58	7:20	7:26	6	
	59		7:32	6	
	60		7:38	6	
	61		7:46	8	
	62		7:54	8	
	63		8:01	7	<i>Vis. 38</i>
	64		8:08	7	
	65		8:15	7	
	66		8:21	6	
	67		8:26	5	<i>AP.</i>
	68		8:31	5	
	69		8:38	5	
	70		8:39	3	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

3971 to 35 20

NAPCO-23A

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM		WELL NO.	LOCATION		
Vera Emrick		1	NE-SW-NW-10-4-18W		
COUNTY	STATE	CONTRACTOR		DATE	
Phillips	Ks.	A. D. Ferrell		12-9-51	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
70	71	8.39	8.42	3	W.7. in at 3316'
	72		8.46	4	air. 1/3 in at 72'
	73	10.19	10.24	5	
	74		10.30	6	
	75		10.36	6	
	76		10.44	8	
	77		10.50	6	
	78		10.56	6	
	79		11.01	5	
	80		11.07	6	
	81		11.13	6	
	82		11.20	8	
	83		11.26	6	
	84		11.33	7	
	85		11.40	7	
	86		11.47	7	
	87		11.53	6	
	88		12.00	7	Conc & rig + motors
	89	12.19	12.26	7	
	90		12.33	7	
	91		12.40	7	
	92		12.48	8	
	93		12.57	9	
	94		1.06	9	
	95		1.15	9	
	96		1.24	9	
	97		1.33	9	
	98		1.42	9	
	99		1.50	8	S.A.
	00		1.55	5	
	01		1.59	4	
	02		2.03	4	
	03		2.07	4	
	04		2.12	5	Conc. samples
	05	3.44	3.50	6	V1534
	06		3.57	7	
	07		4.06	9	Mixed 5 sacks of gravel
	08		4.19	13	
	09		4.32	13	
	10		4.43	11	
	11		4.50	7	
	12		4.51	1	
	13		4.52	1	
	14		4.54	2	circ 1/2 in
	15	6.31	6.33	2	
	16		6.34	1	
	17		6.35	1	
	18		6.37	2	
	19	6.46	6.52	6	CON
	20		6.55	3	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

3520-70

NAPCO-23A

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM		WELL NO.	LOCATION.		
COUNTY		STATE	CONTRACTOR	DATE	
Vera Emerick		1	NE 1/4 NW 10-4-18		
Phillips		Kansas	L. D. Perrell	12-9-51	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
	21		7.02	7	
	22		7.09	7	
	23		7.11	7	
	24		7.25	9	
	25		7.29	4	
	26		7.39	10	
	27		7.46	7	
	28			1	
	29		7.47	1	
	30		7.48	1	
	31		7.51	3	
	32		7.52	1	
	33		7.53	1	
	34		7.55	2	
	35		7.58	3	Circ 1 1/2 hr
	36	9.29	9.32	3	
	37		9.35	3	
	38		9.37	2	
	39		9.39	2	
	40		9.40	1	
	41		9.41	1	
	42		9.50	9	
	43		10.00	10	
	44		10.07	7	
	45		10.10	3	
	46		10.11	1	
	47			1	
	48		10.12	1	
	49		10.13	1	
	50	10:21	10:23	2	Conn.
	51		10.24	1	
	52		10.26	2	
	53		10.29	3	
	54		10.31	2	
	55		10.33	2	
	56		10.38	1	
	57		10.38	4	
	58		10.50	12	TRIP F. P. BIT. WORKING
	59	2:30	2:35	5	on Rotary Clutch.
	60		2:40	5	
	61		2:45	5	
	62		2:50	5	
	63		2:54	4	
	64		2:58	4	
	65		3:02	4	
	66		3:11	9	
	67		3:14	3	
	68		3:17	3	
	69		3:21	4	
	70		3:24	3	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.

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NAPCO-23A

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Vera Emerich</i>	WELL NO. #1	LOCATION NE-SW-NW 10-4-18
COUNTY <i>Phillips</i>	STATE <i>Kansas</i>	CONTRACTOR <i>J. L. Ferrell</i>
		DATE 12-10-51

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
70	71	3:24	3:28	4	Circ 1/2 hr For Sample
	72	5:00	5:03	3	W-7 in @ 55. 230 AM
	73		5:05	2	S.R.
	74		5:09	3	U.R.
	75		5:34	26	U.R.
	76		5:54	20	S.R.
	77		6:08	14	
	78		6:25	17	R. U is 36+ - W 9:9
	79		6:55	30	
> 79	80	6:59	7:12	13	Conn. circ 1/2 hr for
	81	11:33	11:40	7	W.T.R. on Bottom
	82		11:43	3	
	83		11:50	7	
	84		11:57	7	
	85		12:01	4	Circ for samples. 1 hr. 20 min
	86	1:22	1:27	5	
	87		1:32	5	
	88		1:37	5	Circ for samples. d.s.t.
	89	9:55	10:00	5	
89	90		10:03	3	
	91		10:10	7	
	92		10:14	4	
	93		10:19	5	
	94		10:25	6	
	95		10:32	7	
	96		10:40	8	
	97		10:46	6	
	98		10:51	5	
	99		11:00	9	
99	00		11:06	6	rt ac circ-for samples 1/2 hr DST #5. Wait on orders from 8:30 to

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible and accurate. After completion of drilling, send these reports to: National Associated Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Oklahoma, if they have not been picked up at the well by the Geologist.