

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

## TIME LOG

FARM		WELL NO.	LOCATION		
HEMKEN		1	THOROWG		
COUNTY		STATE	CONTRACTOR		DATE
RUSH		KANS	THOROWG		
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
1000	7	1:20	1:25	5	
	8		1:30	5	
	12		1:35	5	
	16		1:40	5	
	20		1:45	5	
	24	1:50	2:05	15	CONN
	28		2:20	15	ANHYDRATE 10L3
	32		2:38	18	
	36		2:56	18	
	40		3:16	20	
	44		3:34	18	
	1045		3:39	5	
	48	603	6:04	1	
	52		6:05	1	CONN
	56	610	6:11	1	
	60		13 2		
	64		15 2		
	68		16 1		
	72		17 1		
	1076		19 2		
	80		21 2		
	84		22 1		CONN
	88	6:29	27 1		
	92		32 1		
	96		35 1		
	1100		36 1		
	4		38 2		
	8		39 1		
	12		40 1		
	16		41 1		CONN
	20	6:46	47 1		
	24		48 1		
	28		49 1		
	32		50 1		
	36		52 2		
	40		53 1		
	44	7:00	7:05 1		CONN
	48		6 1		
	52		7 1		
	56		9 2		
	60		10 1		
	64		11 1		
	68		12 1		
	72		13 1		
	76		14 1		CONN Grate drilled
	80	7:18	19 1		
	84		20 1		
	88		22 2		
	92		23 1		
	96		24 1		

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		
COUNTY		STATE	CONTRACTOR		DATE
Rush		Kansas	Thoroughbred		4-30-65
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
1196	1200	7:24	7:26	2	
	11		27	1	
	8		29	2	conn
	12	7:34	7:38	1	
	16		36	1	
	20		38	2	
	24		39	1	
	28		41	2	
	32		43	2	
1232	1236		45	2	conn
	40	8:50	51	1	
	44		53	2	
	48		54	1	
	52		56	2	
	56		7:58	2	pump
	60	1:30	31	1	C.B.I. @ 1:30 P.M.
	64		32	1	
	68		33	1	
	72		34	1	conn & BEESE SWIVEL
1272	1276	1:40	42	2	
	80		44	2	
	84		46	2	
	88		44	2	
	92		50	2	
	96		53	3	
1296	1300		56	3	CONN, SWIVEL
	4	2:08	10	2	
	8		12	2	
	12		14	2	
1312	1316		16	2	
	20		18	2	
	24		19	1	
	28		20	1	
	32		21	1	CONN
	36	2:26	27	1	
	40		29	2	
	44		31	2	
	48		34	3	
	52		36	2	
1352	1356		38	2	
	60		39	1	
	64		40	1	conn for Rig
	68	2:58	59	1	
	72		3:00	1	
	76		3:03	2	
	80		5	2	
	84		6	1	
	88		7	1	
	92		9	2	
	1396		112		conn swivel

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Hempken</i>	WELL NO. <i>1</i>	LOCATION <i>West of H.B.</i>
COUNTY <i>Rush</i>	STATE <i>Kansas</i>	CONTRACTOR <i>Thoroughbred</i>
		DATE <i>5-1-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>15</i>	<i>96</i>	<i>6:50</i>	<i>6:55</i>	<i>5</i>	
	<i>4</i>			<i>57</i>	<i>2</i>
	<i>8</i>			<i>59</i>	<i>2</i>
	<i>12</i>		<i>7:01</i>	<i>2</i>	<i>conn</i>
	<i>16</i>	<i>7:07</i>	<i>08</i>	<i>1</i>	
	<i>20</i>		<i>12</i>	<i>4</i>	
	<i>24</i>		<i>15</i>	<i>3</i>	
	<i>28</i>		<i>17</i>	<i>2</i>	
	<i>32</i>		<i>19</i>	<i>2</i>	
	<i>16 36</i>		<i>21</i>	<i>2</i>	
	<i>40</i>		<i>23</i>	<i>2</i>	
	<i>44</i>		<i>25</i>	<i>2</i>	<i>conn</i>
	<i>48</i>	<i>7:31</i>	<i>7:34</i>	<i>3</i>	<i>well am</i>
	<i>52</i>		<i>37</i>	<i>3</i>	
	<i>56</i>		<i>40</i>	<i>3</i>	
	<i>60</i>		<i>43</i>	<i>3</i>	
	<i>64</i>		<i>46</i>	<i>3</i>	
	<i>68</i>		<i>50</i>	<i>4</i>	
	<i>72</i>		<i>53</i>	<i>3</i>	
	<i>16 76</i>		<i>55</i>	<i>2</i>	<i>conn + swivel</i>
	<i>80</i>	<i>8:04</i>	<i>8:06</i>	<i>2</i>	
	<i>84</i>		<i>10</i>	<i>4</i>	
	<i>88</i>		<i>13</i>	<i>3</i>	
	<i>92</i>		<i>15</i>	<i>2</i>	
	<i>96</i>		<i>17</i>	<i>2</i>	
	<i>17 00</i>		<i>19</i>	<i>2</i>	
	<i>4</i>		<i>21</i>	<i>2</i>	<i>conn packed swivel</i>
	<i>8</i>	<i>9:00</i>	<i>05</i>	<i>5</i>	
	<i>12</i>		<i>8</i>	<i>3</i>	
	<i>17 16</i>		<i>10</i>	<i>2</i>	
	<i>20</i>		<i>13</i>	<i>3</i>	
	<i>24</i>		<i>16</i>	<i>3</i>	
	<i>28</i>		<i>18</i>	<i>2</i>	
	<i>32</i>		<i>20</i>	<i>2</i>	
	<i>36</i>		<i>23</i>	<i>3</i>	<i>conn</i>
	<i>40</i>	<i>9:28</i>	<i>30</i>	<i>2</i>	
	<i>44</i>		<i>34</i>	<i>4</i>	
	<i>48</i>		<i>37</i>	<i>3</i>	
	<i>52</i>		<i>39</i>	<i>2</i>	
	<i>17 56</i>		<i>41</i>	<i>2</i>	
	<i>60</i>		<i>44</i>	<i>3</i>	
	<i>64</i>		<i>47</i>	<i>3</i>	<i>conn</i>
	<i>68</i>	<i>9:55</i>	<i>58</i>	<i>3</i>	
	<i>72</i>		<i>10:08</i>	<i>10</i>	
	<i>76</i>		<i>12</i>	<i>4</i>	
	<i>80</i>		<i>15</i>	<i>3</i>	
	<i>84</i>		<i>21</i>	<i>6</i>	
	<i>88</i>		<i>24</i>	<i>3</i>	
	<i>92</i>		<i>28</i>	<i>4</i>	
	<i>17 96</i>		<i>35</i>	<i>4</i>	<i>conn</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 *H* *Henken* WELL NO. *1* LOCATION \_\_\_\_\_  
 COUNTY *Rush* STATE *Kansas* CONTRACTOR *Thoroughbred* DATE *5-2-69*

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
17	96	1035	1040	6	
	4	1052	1058	6	
	8		1106	8	
	12		13	7	
	16		20	7	
18	20	120	24	4	TRIP & work. wash pipe
	24		28	4	
	28		36	8	
	32	143	48	5	
	36		54	6	
18	40		902	8	
	44		08	6	
	48		14	6	
	52		20	6	
	56		26	6	
18	60		32	6	
	64	239	49	10	CONN
	68		59	10	
	72		306	7	
	76		14	8	
18	80		20	6	
	84		26	6	
	88		36	10	
	92		46	10	
	96	355	402	7	CONN
19	00		07	5	
	4		13	6	
	8		20	7	
	12		27	7	
	16		34	7	
19	20		41	7	
	24	447	52	5	CONN
	28		59	7	
	32		505	6	
	36		09	4	
19	40		14	5	
	44		18	4	
	48		21	3	
	52		24	3	
	56	528	35	7	CONN
19	60		42	7	
	64		48	6	
	68		54	6	
	72		600	6	
	76		06	6	
19	80		12	6	
	84		18	6	
	88	638	52	14	CONN SET P.T. SCR. P.C.
	92		59	7	
19	96		704	5	

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

FARM <b>Hempken</b>	WELL NO. <b>1</b>	LOCATION
COUNTY <b>Bush</b>	STATE <b>Oklahoma</b>	CONTRACTOR <b>Thoroughbred</b>
		DATE <b>5-2-65</b>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2396	2400	8:09	8:20	11	
	04		:27	7	
	08		:35	8	
	12		:43	8	
	16		:54	9	conn
	20	8:59	9:08	9	
	24		:16	8	
	28		9:30	14	
	32		:48	18	
	36		10:02	14	
	40		:14	12	
	44		:25	11	
	48		:34	9	
	52	10:40	11:00	20	
	56		:20	20	
	60		:37	17	
	64	<del>11:45</del> 11:57	11:59	10	PUMP
	68		12:10	11	
	72		:17	7	
	76		:24	7	
	80		:29	5	
	84		:38	9	
	88		:47	9	
	92		:54	7	
	96		1:06	12	
	2500		:24	18	
	02		3:2	8	
	04		3:9	7	
	06		:44	5	
	08		:48	4	
	10		:53	5	
	12	2:20	:25	5	CONN PUMP
	14		:28	3	
	16		:38	10	
	18		44	6	
	20		51	7	
	22		3:00	9	
	24		:7	7	
	26		11	4	
	28		14	3	
	30		16	2	
	32		18	2	
	34		20	2	
	36		25	5	
	38		27	2	
	40		30	3	conn ck rig
	42	3:42	46	4	
	44		50	4	
	46		56	6	
	48		4:01	5	

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Hemken</i>	WELL NO. <i>7</i>	LOCATION
COUNTY <i>Rush</i>	STATE <i>Kansas</i>	CONTRACTOR <i>Thoroughbred Drilling</i>
		DATE <i>5-3-65</i>

DEPTH.		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>2548</i>	<i>2550</i>	<i>401</i>	<i>410</i>	<i>9</i>	
	<i>52</i>		<i>15</i>	<i>5</i>	<i>Trip work on mud pump.</i>
	<i>56</i>	<i>707</i>	<i>20</i>	<i>12</i>	
	<i>58</i>		<i>25</i>	<i>5</i>	
	<i>60</i>		<i>33</i>	<i>8</i>	
	<i>62</i>		<i>40</i>	<i>7</i>	
	<i>64</i>		<i>47</i>	<i>7</i>	
	<i>66</i>		<i>55</i>	<i>8</i>	
	<i>68</i>		<i>59</i>	<i>4</i>	
<i>2568</i>	<i>2570</i>		<i>8:03</i>	<i>4</i>	<i>Conn</i>
	<i>72</i>	<i>809</i>	<i>12</i>	<i>3</i>	<i>FW</i>
	<i>74</i>		<i>18</i>	<i>6</i>	
	<i>76</i>		<i>23</i>	<i>5</i>	
	<i>78</i>		<i>31</i>	<i>8</i>	
	<i>80</i>		<i>35</i>	<i>4</i>	
	<i>82</i>		<i>42</i>	<i>7</i>	
	<i>84</i>		<i>47</i>	<i>5</i>	
	<i>86</i>		<i>54</i>	<i>7</i>	
	<i>88</i>		<i>9:00</i>	<i>6</i>	
<i>2588</i>	<i>90</i>		<i>7</i>	<i>7</i>	
	<i>92</i>		<i>15</i>	<i>8</i>	
	<i>94</i>		<i>20</i>	<i>5</i>	
	<i>96</i>		<i>25</i>	<i>5</i>	
	<i>98</i>		<i>30</i>	<i>5</i>	
	<i>2600</i>		<i>33</i>	<i>3</i>	
	<i>2</i>		<i>36</i>	<i>3</i>	<i>Conn</i>
	<i>4</i>	<i>942</i>	<i>47</i>	<i>5</i>	
	<i>6</i>		<i>53</i>	<i>6</i>	
	<i>8</i>		<i>57</i>	<i>4</i>	
<i>2608</i>	<i>2610</i>		<i>7:02</i>	<i>5</i>	
	<i>12</i>		<i>7</i>	<i>5</i>	
	<i>14</i>		<i>12</i>	<i>5</i>	
	<i>16</i>		<i>21</i>	<i>9</i>	
	<i>18</i>		<i>29</i>	<i>9</i>	
	<i>20</i>		<i>34</i>	<i>5</i>	
	<i>22</i>		<i>40</i>	<i>6</i>	
	<i>24</i>		<i>45</i>	<i>5</i>	
	<i>26</i>		<i>53</i>	<i>8</i>	
	<i>28</i>		<i>59</i>	<i>6</i>	
<i>2628</i>	<i>2630</i>		<i>11:05</i>	<i>6</i>	
	<i>32</i>		<i>10</i>	<i>5</i>	
	<i>34</i>		<i>14</i>	<i>4</i>	<i>Conn. Ser. P. 7</i>
	<i>36</i>	<i>1122</i>	<i>26</i>	<i>4</i>	
	<i>38</i>		<i>34</i>	<i>8</i>	
	<i>40</i>		<i>40</i>	<i>6</i>	
	<i>42</i>		<i>46</i>	<i>6</i>	
	<i>44</i>		<i>52</i>	<i>6</i>	
	<i>46</i>		<i>58</i>	<i>6</i>	
	<i>48</i>		<i>12:05</i>	<i>7</i>	
<i>2648</i>	<i>2650</i>		<i>12</i>	<i>7</i>	

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM		WELL NO.	LOCATION		
Hemken		1			
COUNTY		STATE	CONTRACTOR	DATE	
Rush		Kansas	Thoroughbred	5-4-65	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2650	26 52	12 12	12 18	6	
	54		25	7	
	56		33	8	
	58		40	7	
2658	26 60		47	7	
	62		55	8	
	64		1 03	8	
	66	1 10	15	5	conn
	68		20	5	
2668	26 70		26	6	
	72		31	5	
	74		37	6	
	76		44	7	
	78		52	8	
2678	26 80		58	6	
	82		2 05	7	
	84		12	7	
	86		20	8	
	88		28	8	
2688	26 90		38	10	
	92		45	7	
	94		50	5	
	96		54	4	
	98	3 00	3 05	5	conn
2698	27 00		13	8	
	2		21	8	
	4		27	6	
	6		31	4	
	8		34	3	
2708	27 10		38	4	
	12		42	4	
	14		46	4	
	16		50	4	
	18		55	5	
2718	27 20		4 00	5	
	22		05	5	
	24		10	5	
	26		16	6	
	28		22	6	
2728	27 30	4 24	30	4	conn
	32		34	4	
	34		37	3	
	36		40	3	
	38		43	3	
2738	27 40		46	3	
	42		49	3	
	44		52	3	
	46		55	3	
	48		57	4	
2748	27 50		5 02	3	

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING

TULSA 3, OKLAHOMA

TIME LOG

FARM <i>Henken</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Rush</i>	STATE <i>KANSAS</i>	CONTRACTOR
		DATE

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2750	52	502	505	3	
	54		10	5	
	56		14	4	
	58		17	3	
2758	2760		20	3	
	62	5:26	29	3	conn.
	64		33	4	
	66		37	4	
	68		40	3	
2768	2770		44	4	
	72		50	6	
	74		58	8	
	76		60.5	7	
	78		12	7	
2778	2780		20	8	
	82		27	7	
	84		32	5	
	86		42	10	
	88		50	8	
2788	2790		56	6	
	92	7:14	7:18	4	SCR. RIG DET.
	94		21	3	
	96		26	5	
	98		28	2	
2798	2800		30	2	
	2		33	3	
	4		36	2	
	6		39	3	
	8		43	4	
2808	2810		47	4	
	12		52	5	
	14		55	3	
	16		57	2	
	18		59	2	
2818	2820		8:01	2	
	22		03	2	CONN
	24	8:09	15	6	
	26		22	7	
	28		28	6	
2828	2830		34	6	
	32		40	6	
	34		47	7	
	36		53	6	
	38		59	6	
2838	2840		9:06	7	
	42		11	5	
	44		16	5	
	46		21	5	
	48		26	5	
2848	2850		34	8	

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.

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

FARM		WELL NO.	LOCATION		
COUNTY		STATE	CONTRACTOR		DATE
Hempden		1			
BUSH		OKLAHOMA	THE ROUGHNECK		5-4-65
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2850	52	9:34	41	7	CONN PUMP.
	54	9:49	55	6	
	56	9:54	10:05	7	
	58		14	9	
	60		21	7	
	62		29	7	
	64		34	6	
	66		40	6	
	68		45	5	
	70		55	5	
	72		59	4	
	74		11:08	9	
	76		113	5	
	78		17	4	
	80		21	4	
	82		26	5	
	84	11:31	11:36	5	
	86		38	2	
	88		42	4	
	90		46	4	
	92		53	7	
	94		12:00	7	
	96		03	3	
	98		09	6	
29	00		15	6	
	02		19	4	
	04		23	4	
	06		26	3	
	08		29	3	
	10		32	3	
	12		36	3	
	14		39	3	CONN
	16	12:44	48	4	midnight
	18		53	5	
	20		58	5	
	22		1:01	3	
	24		1:05	4	
	26		10	5	
	28		14	4	
	30		18	4	
	32		25	7	
	34		30	5	
	36		39	9	TRIP WORK on mud pump
	38	8:41	44	3	
	40		46	2	
	42		48	2	
	44		50	2	
	46	9:01	9:04	3	CONN SWIVEL
	48		10	6	
2950			14	4	

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 <i>Hemken</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Rush</i>	STATE <i>Kansas</i>	CONTRACTOR
		DATE

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>2950</i>	<i>2952</i>	<i>9:14</i>	<i>9:20</i>	<i>6</i>	
	<i>54</i>		<i>25</i>	<i>5</i>	
	<i>56</i>		<i>30</i>	<i>5</i>	
	<i>58</i>		<i>36</i>	<i>6</i>	
	<i>60</i>		<i>40</i>	<i>4</i>	
	<i>62</i>		<i>43</i>	<i>3</i>	
	<i>64</i>		<i>44</i>	<i>1</i>	
	<i>66</i>		<i>45</i>	<i>1</i>	
	<i>68</i>		<i>46</i>	<i>1</i>	
<i>2968</i>	<i>2970</i>		<i>47</i>	<i>1</i>	
	<i>71</i>		<i>49</i>	<i>2</i>	
	<i>74</i>		<i>52</i>	<i>3</i>	
	<i>76</i>		<i>55</i>	<i>3</i>	<i>Conn</i>
	<i>78</i>	<i>10:01</i>	<i>10:09</i>	<i>7</i>	
	<i>80</i>		<i>13</i>	<i>4</i>	
	<i>82</i>		<i>17</i>	<i>4</i>	
	<i>84</i>		<i>21</i>	<i>4</i>	
	<i>86</i>		<i>26</i>	<i>5</i>	
	<i>88</i>		<i>32</i>	<i>6</i>	
<i>2988</i>	<i>2990</i>		<i>37</i>	<i>5</i>	
	<i>92</i>		<i>45</i>	<i>8</i>	
	<i>94</i>		<i>54</i>	<i>9</i>	
	<i>96</i>		<i>11:03</i>	<i>9</i>	
	<i>98</i>		<i>12</i>	<i>9</i>	
<i>2998</i>	<i>3000</i>		<i>21</i>	<i>9</i>	<i>1" Drilling Time</i>
	<i>1</i>		<i>11:25</i>	<i>4</i>	<i>light out</i>
	<i>2</i>	<i>11:08</i>	<i>12:11</i>	<i>3</i>	<i>Work on light work back</i>
	<i>3</i>		<i>14</i>	<i>3</i>	
	<i>4</i>		<i>16</i>	<i>2</i>	
	<i>5</i>		<i>18</i>	<i>2</i>	
	<i>6</i>		<i>20</i>	<i>2</i>	
	<i>7</i>		<i>22</i>	<i>2</i>	
	<i>8</i>		<i>25</i>	<i>3</i>	
	<i>9</i>	<i>12:34</i>	<i>36</i>	<i>2</i>	<i>Conn. Set Rig</i>
<i>30</i>	<i>10</i>		<i>38</i>	<i>2</i>	
	<i>11</i>		<i>42</i>	<i>4</i>	
	<i>12</i>		<i>46</i>	<i>4</i>	
	<i>13</i>		<i>49</i>	<i>3</i>	
	<i>14</i>		<i>52</i>	<i>3</i>	
	<i>15</i>		<i>55</i>	<i>3</i>	
	<i>16</i>		<i>58</i>	<i>3</i>	<i>dam</i>
	<i>17</i>		<i>1:01</i>	<i>3</i>	
	<i>18</i>		<i>03</i>	<i>2</i>	
	<i>19</i>		<i>05</i>	<i>2</i>	
<i>30</i>	<i>20</i>		<i>06</i>	<i>1</i>	
	<i>21</i>		<i>7</i>	<i>1</i>	
	<i>22</i>		<i>8</i>	<i>1</i>	
	<i>23</i>		<i>10</i>	<i>2</i>	
	<i>24</i>		<i>12</i>	<i>2</i>	
<i>30</i>	<i>25</i>		<i>14</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>Helm Ken</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Rush</i>	STATE <i>Kansas</i>	CONTRACTOR
		DATE

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>30</i>	<i>25</i>	<i>1:14</i>	<i>16</i>	<i>2</i>	
	<i>27</i>		<i>18</i>	<i>2</i>	
	<i>28</i>		<i>20</i>	<i>2</i>	
	<i>29</i>		<i>22</i>	<i>2</i>	
<i>30</i>	<i>30</i>		<i>24</i>	<i>2</i>	
	<i>31</i>		<i>25</i>	<i>1</i>	
	<i>32</i>		<i>26</i>	<i>1</i>	
	<i>33</i>		<i>28</i>	<i>2</i>	
	<i>34</i>		<i>30</i>	<i>2</i>	
	<i>35</i>		<i>33</i>	<i>3</i>	
	<i>36</i>		<i>34</i>	<i>1</i>	
	<i>37</i>		<i>35</i>	<i>1</i>	
	<i>38</i>		<i>37</i>	<i>2</i>	
	<i>39</i>		<i>40</i>	<i>3</i>	<i>0.1171</i>
<i>30</i>	<i>40</i>	<i>1:49</i>	<i>51</i>	<i>2</i>	
	<i>41</i>		<i>54</i>	<i>3</i>	
	<i>42</i>		<i>57</i>	<i>3</i>	
	<i>43</i>		<i>1:00</i>	<i>3</i>	
	<i>44</i>		<i>04</i>	<i>21</i>	<i>hopper open</i>
	<i>45</i>		<i>08</i>	<i>4</i>	
	<i>46</i>		<i>12</i>	<i>4</i>	
	<i>47</i>		<i>16</i>	<i>4</i>	
	<i>48</i>		<i>19</i>	<i>3</i>	
	<i>49</i>		<i>23</i>	<i>4</i>	
<i>30</i>	<i>50</i>		<i>27</i>	<i>4</i>	
	<i>51</i>		<i>31</i>	<i>4</i>	
	<i>52</i>		<i>35</i>	<i>4</i>	
	<i>53</i>		<i>40</i>	<i>5</i>	
	<i>54</i>	<i>2:56</i>	<i>3:00</i>	<i>4</i>	<i>PUMP AIR UP</i>
	<i>55</i>		<i>04</i>	<i>4</i>	
	<i>56</i>		<i>08</i>	<i>4</i>	
	<i>57</i>		<i>10</i>	<i>2</i>	
	<i>58</i>		<i>14</i>	<i>4</i>	
	<i>59</i>		<i>18</i>	<i>4</i>	
<i>30</i>	<i>60</i>		<i>22</i>	<i>4</i>	
	<i>61</i>		<i>26</i>	<i>4</i>	
	<i>62</i>		<i>30</i>	<i>4</i>	
	<i>63</i>		<i>35</i>	<i>5</i>	
	<i>64</i>		<i>39</i>	<i>4</i>	
	<i>65</i>		<i>43</i>	<i>4</i>	
	<i>66</i>		<i>47</i>	<i>4</i>	
	<i>67</i>		<i>51</i>	<i>4</i>	
	<i>68</i>		<i>55</i>	<i>4</i>	
	<i>69</i>		<i>4:00</i>	<i>5</i>	
<i>30</i>	<i>70</i>		<i>05</i>	<i>5</i>	<i>0.2171</i>
	<i>71</i>	<i>4:12</i>	<i>16</i>	<i>4</i>	
	<i>72</i>		<i>20</i>	<i>4</i>	
	<i>73</i>		<i>24</i>	<i>4</i>	
	<i>74</i>		<i>27</i>	<i>3</i>	
<i>30</i>	<i>75</i>		<i>28</i>	<i>1</i>	

INSTRUCTIONS: Fill out this report in TRIPPLICATE (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, 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>Henken</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Posk</i>	STATE <i>Kansas</i>	CONTRACTOR
		DATE

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
30	75	428	30	2	
	76		30	2	
	77		32	2	
	78		34	2	
	79		36	2	
30	80		38	2	
	81		40	2	
	82		41	1	
	83		42	1	
	84		44	2	
30	85		46	2	
	86		49	3	
	87		53	4	
	88		57	4	
	89		50 2	5	
30	90		06	4	
	91		9	3	
	92		13	4	
	93		17	4	
	94		21	4	
30	95		25	4	
	96		29	4	
	97		33	4	
	98		36	3	
	99		39	3	
31	00		42	3	
	1		46	4	
	2	557	601	4	ANN 1st Vol. Down Hopper open
	3		07	6	
	4		13	6	
	5		19	6	
	6		24	5	
	7		28	4	
	8		31	3	
	9		34	3	
31	10		37	5	
	11		43	4	
	12		50	5	
	13		58	7	
	14		1:03	5	
	15		1:07	4	
	16	7:21	1:24	5	SCR. B/D HOPPER CLOSED
	17		1:26	2	
	18		1:28	2	
	19		1:30	2	
31	20		1:33	3	
	21		1:35	2	
	22		1:37	2	
	23		1:39	2	
	24		1:41	2	
31	25		1:44	3	

INSTRUCTIONS: 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, 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: <b>Hempden</b>	WELL NO. <b>1</b>	LOCATION <b>T</b>
COUNTY <b>Nowata</b>	STATE <b>KANS</b>	CONTRACTOR <b>Thompson</b>
		DATE <b>5-5-65</b>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3125	3126	7:44	7:47	3	
	27		:49	2	
	28		:51	2	
	29		:55	4	
	30		:56	3	
	31		4:03	5	CONN PUMP
	32	8:56	9:04	8	
	33		:08	4	
	34		:14	6	
	3125		:22	8	HOPPER OPEN
	36		:30	8	
	37		:34	4	
	38		:40	6	
	39		:47	7	
	40		:58	11	
	41		:17	19	
	42		:27	5	
	43		:34	7	
	44		:41	7	HOPPER CLOSED
	3145		:50	9	VIS 38 WT.
	46		11:05	15	
	47	11:10	12:07	12	AIR LINE PRO NC
	48		:15	8	
	49		:21	6	
	50		:27	6	
	51		:31	4	
	52		:35	4	
	53		:38	3	
	54		:43	5	
	3155		:52	9	
	56		1:57	5	
	57		1:04	7	
	58		:09	5	
	59		:15	6	
	60		:18	3	
	61		:23	5	
	62	1:31	:26	3	CONN
	63	1:31	:37	6	
	64		:44	7	VIS 38 WT 9.8
	3165		:48	4	
	66		:52	4	
	67		2:01	9	
	68		:08	7	
	69		:17	9	
	70		:26	9	
	71		:32	6	
	72		4:02	10	
	73		5:08	8	
	74		5:58	8	
	3175		3:05	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, 5000 First Avenue, 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>Hamken</i>	WELL NO. <i>7</i>	LOCATION <i>West H Bend</i>
COUNTY <i>Rush</i>	STATE <i>Kansas</i>	CONTRACTOR <i>Thoroughbred</i>
		DATE <i>5-5-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>3175</i>	<i>3176</i>	<i>3 05</i>	<i>3:12</i>	<i>7</i>	<i>pm.</i>
	<i>77</i>		<i>19</i>	<i>7</i>	
	<i>78</i>		<i>24</i>	<i>5</i>	<i>VIS-38-wt-9<sup>s</sup></i>
	<i>79</i>		<i>30</i>	<i>6</i>	
	<i>80</i>		<i>36</i>	<i>6</i>	
	<i>81</i>		<i>40</i>	<i>4</i>	
	<i>82</i>		<i>44</i>	<i>4</i>	
	<i>83</i>		<i>50</i>	<i>6</i>	
	<i>84</i>		<i>58</i>	<i>8</i>	
<i>3184</i>	<i>3185</i>		<i>4:06</i>	<i>8</i>	
	<i>86</i>		<i>14</i>	<i>8</i>	
	<i>87</i>		<i>19</i>	<i>5</i>	
	<i>88</i>		<i>29</i>	<i>10</i>	
	<i>89</i>		<i>36</i>	<i>7</i>	
	<i>90</i>		<i>43</i>	<i>7</i>	
	<i>91</i>		<i>48</i>	<i>5</i>	
	<i>92</i>		<i>52</i>	<i>4</i>	
	<i>93</i>		<i>5:00</i>	<i>8</i>	<i>Conn OK no cleaned screen</i>
	<i>94</i>	<i>5:13</i>	<i>18</i>	<i>5</i>	<i>on mud pump.</i>
<i>3194</i>	<i>3195</i>		<i>21</i>	<i>3</i>	
	<i>96</i>		<i>23</i>	<i>2</i>	
	<i>97</i>		<i>25</i>	<i>2</i>	
	<i>98</i>		<i>27</i>	<i>2</i>	
	<i>99</i>		<i>29</i>	<i>2</i>	
	<i>3200</i>		<i>31</i>	<i>2</i>	
	<i>1</i>		<i>33</i>	<i>2</i>	
	<i>2</i>		<i>36</i>	<i>3</i>	
	<i>3</i>		<i>39</i>	<i>3</i>	
	<i>4</i>		<i>41</i>	<i>2</i>	
<i>3204</i>	<i>3205</i>		<i>44</i>	<i>3</i>	
	<i>6</i>		<i>47</i>	<i>3</i>	
	<i>7</i>		<i>49</i>	<i>2</i>	
	<i>8</i>		<i>52</i>	<i>2</i>	
	<i>9</i>		<i>50</i>	<i>2</i>	
	<i>10</i>		<i>57</i>	<i>3</i>	
	<i>11</i>		<i>6:00</i>	<i>3</i>	
	<i>12</i>		<i>06</i>	<i>6</i>	
	<i>13</i>		<i>14</i>	<i>8</i>	
	<i>14</i>		<i>21</i>	<i>7</i>	
<i>3214</i>	<i>3215</i>		<i>28</i>	<i>7</i>	
	<i>16</i>		<i>36</i>	<i>8</i>	
	<i>17</i>		<i>42</i>	<i>6</i>	
	<i>18</i>		<i>45</i>	<i>3</i>	
	<i>19</i>		<i>48</i>	<i>3</i>	
	<i>20</i>		<i>51</i>	<i>3</i>	
	<i>21</i>		<i>56</i>	<i>5</i>	
	<i>22</i>		<i>58</i>	<i>2</i>	
	<i>23</i>		<i>70</i>	<i>13</i>	<i>Conn</i>
	<i>24</i>	<i>7:08</i>	<i>12</i>	<i>4</i>	
<i>3224</i>	<i>3225</i>		<i>18</i>	<i>6</i>	

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NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

FARM:		WELL NO. #	LOCATION		
Hemken		1	west A Bend		
COUNTY	STATE	CONTRACTOR	DATE		
Rush	Kansas	Thoroughbred	5-5-65		
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3225	3226	7:18	7:25	7	Hopper open
	27		30	5	
	28		34	4	
	29		40	6	
	30		45	5	
	31		46	1	Hopper closed
	32		47	1	
	33		48	1	
	34		49	1	
3234	3235		50	1	
	36		52	2	
	37		54	2	
	38		55	1	
	39		58	3	
	40		8:00	2	
	41		3	3	
	42		6	3	
	43		8:10	4	
	44		14	4	
3244	3245		20	6	
	46		25	5	
	47		30	5	
	48		36	6	
	49		43	7	
3249	3250		48	5	
	51		52	4	
	52		55	3	
	53		57	2	
	54		9:03	6	
	3255		9:10	7	Conn Trip - 8 hole
	56	12:20	33	3	Set Rig
	57		26	3	
	58		29	3	
	59		32	3	
	60		37	5	
	61		41	4	
	62		46	5	Hopper open
	63		55	9	
	64		1:10	15	
3264	3265		22	12	Rud
	66		30	8	"
	67		36	6	"
	68		45	9	"
	69		54	9	
	70		20:3	9	Hopper close
	71		10	7	
	72		17	7	
	73		22	5	
	74		26	4	
3274	3275		30	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.

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

*[Handwritten signature]*

FARM		WELL NO.	LOCATION		
Hamken		1			
COUNTY		STATE	CONTRACTOR	DATE	
Push		Kansas	Thoroughbred	5-6-65	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
32	75	2:30	34	4	
	77		38	4	
	78		44	6	
	79	2:55	59	4	clean screen on pump
32	80		3:04	5	
	81		11	7	
	82		18	7	
	83		30	12	
	84		42	12	
	85		54	12	
	86		4:06	12	
	87	4:14	25	11	COIN
	88		38	13	vis 39 wt 9.7
	89		51	13	
32	90		5:05	14	
	91		17	12	
	92		22	5	
	93		26	4	
	94		29	3	
	95		35	7	Wash samples
	96		49	13	ready
	97		6:06	17	vis 38 wt 9.7
	98		18	12	
	99		27	9	
32	100		34	7	
	1		40	6	
	2		46	6	
	3		54	8	vis 36 wt 9.9
	4		7:00	6	HOPPER OPEN
	5		7:01	6	
	6		7:15	9	
	7		7:30	15	
	8		7:42	12	
	9		7:53	11	HOPPER CLOSED
32	10	7:59	8:02	3	SEM. RIG
	11		8:05	3	
	11		8:09	4	
	13		8:12	3	
	14		8:17	5	
	15		8:26	9	
	16		8:36	10	
	17		8:47	11	
	18		9:06	19	SWIVEL COMM.
	19	9:12	9:28	22	
32	20	9:35	9:42	7	PUMP
	21		9:47	5	
	22		9:51	4	
	23		9:57	6	
	24		10:02	5	
32	25		10:09	7	

INSTRUCTIONS: 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, when these reports are returned to the National Petroleum Company, they should be checked for accuracy and, 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>Hempstead</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Bush</i>	STATE <i>Kans</i>	CONTRACTOR <i>Thoroughbred</i>
		DATE <i>5-6-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3325	26	10:09	10:14	5	
	27		:18	4	
	28		:24	6	
	29		:29	5	
	30		:34	5	
	31		:42	8	
	32		:45	3	<i>vis 38 wt. 9.8</i>
	33		:49	4	
	34		:52	3	
<i>33</i>	35		:54	2	
	36		:57	3	
	37		11:02	5	
	38		:07	5	
	39		:10	3	
	40		:14	4	
	41		:15	4	
	42		:22	4	
	43		:25	3	
	44		:29	4	
<i>33</i>	45		:32	3	
	46		:37	5	
	47		:40	3	
	48		:43	3	
	49		:46	3	<i>CONN</i>
	50	11:51	:54	3	
	51		11:57	3	
	52		12:00	3	
	53		:03	3	
	54		:06	3	
<i>33</i>	55		:08	2	
	56		:12	4	
	57		:15	3	
	58		:17	2	
	59		:20	3	
	60		:23	3	
	61		:31	8	
	62		:43	12	
	63		:54	11	
<i>33</i>	64		1:07	14	
<i>33</i>	65		:15	8	
	66		1:32	17	
	67		:47	15	
	68		2:00	13	
	69		:12	12	<i>vis 39 wt. 9.9</i>
	70		:18	6	
	71		:26	8	
	72		:32	6	
	73		:36	4	
	74		:44	8	
<i>33</i>	75		:46	2	

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 copies to the National Association Petroleum Company, Fifth Floor, Ritz Building, Tulsa, Okla. 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>Henken</i>	WELL NO. <i>#1</i>	LOCATION
COUNTY: <i>Rush</i>	STATE: <i>Kansas</i>	CONTRACTOR: <i>Thoroughbred</i> DATE: <i>5-6-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>3375</i>	<i>3376</i>	<i>2:46</i>	<i>2:48</i>	<i>2</i>	
	<i>77</i>		<i>51</i>	<i>3</i>	
	<i>78</i>		<i>53</i>	<i>2</i>	
	<i>79</i>		<i>56</i>	<i>2</i>	
	<i>80</i>		<i>58</i>	<i>2</i>	
	<i>80</i>		<i>3:01</i>	<i>3</i>	<i>Conn-CK-req</i>
	<i>82</i>	<i>3:12</i>	<i>17</i>	<i>5</i>	
	<i>83</i>		<i>29</i>	<i>12</i>	
	<i>84</i>		<i>41</i>	<i>12</i>	
<i>3384</i>	<i>3385</i>		<i>55</i>	<i>14</i>	
	<i>86</i>		<i>4:10</i>	<i>15</i>	
	<i>87</i>		<i>51</i>	<i>14</i>	<i>Hopper open</i>
	<i>88</i>		<i>37</i>	<i>13</i>	
	<i>89</i>		<i>50</i>	<i>13</i>	
	<i>90</i>		<i>50</i>	<i>17</i>	
	<i>91</i>		<i>14</i>	<i>7</i>	
	<i>92</i>		<i>16</i>	<i>2</i>	<i>Hopper Closed</i>
	<i>93</i>		<i>17</i>	<i>1</i>	
	<i>94</i>		<i>17</i>	<i>1/2</i>	
<i>3394</i>	<i>3395</i>		<i>18</i>	<i>1/2</i>	
	<i>96</i>		<i>18</i>	<i>1/2</i>	
	<i>97</i>		<i>19</i>	<i>1/2</i>	
	<i>98</i>		<i>19</i>	<i>1/2</i>	
	<i>99</i>		<i>20</i>	<i>1/2</i>	
<i>3399</i>	<i>3400</i>		<i>21</i>	<i>1</i>	<i>WT-10-VIS-41</i>
	<i>1</i>		<i>22</i>	<i>1</i>	
	<i>2</i>		<i>23</i>	<i>1</i>	
	<i>3</i>		<i>24</i>	<i>1</i>	
	<i>4</i>		<i>25</i>	<i>1</i>	
<i>3404</i>	<i>3405</i>		<i>29</i>	<i>4</i>	
	<i>6</i>		<i>37</i>	<i>8</i>	
	<i>7</i>		<i>49</i>	<i>12</i>	
	<i>8</i>		<i>60</i>	<i>14</i>	
	<i>9</i>		<i>13</i>	<i>10</i>	
	<i>10</i>		<i>23</i>	<i>10</i>	
	<i>11</i>		<i>27</i>	<i>4</i>	
	<i>12</i>	<i>6:35</i>	<i>43</i>	<i>8</i>	<i>Timeout Hail &amp; rain</i>
	<i>13</i>		<i>50</i>	<i>7</i>	
	<i>14</i>		<i>59</i>	<i>9</i>	
<i>3414</i>	<i>3415</i>		<i>7:06</i>	<i>7</i>	
	<i>16</i>		<i>11</i>	<i>5</i>	
	<i>17</i>		<i>16</i>	<i>5</i>	
	<i>18</i>		<i>25</i>	<i>9</i>	
	<i>19</i>		<i>35</i>	<i>10</i>	<i>Air line broke on low chute</i>
	<i>20</i>	<i>8:05</i>	<i>8:12</i>	<i>6</i>	
	<i>21</i>		<i>23</i>	<i>11</i>	
	<i>22</i>		<i>37</i>	<i>14</i>	
	<i>23</i>		<i>53</i>	<i>16</i>	
	<i>24</i>	<i>3:35</i>	<i>43</i>	<i>8</i>	
<i>3424</i>	<i>3425</i>		<i>51</i>	<i>8</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: <i>Henken</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Rusk</i>	STATE <i>Kansas</i>	CONTRACTOR <i>Thoroughbred</i>
		DATE <i>5-7-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
34	25	3:51	4:10	8	nipples in mud line
	27	4:11	4:25	7	
	28		35	8	
	29		43	8	
34	30		51	8	
	31		59	8	hopper open
	32		5:08	9	
	33		20	12	
	34		27	7	
34	35		34	7	hopper close
	36		40	6	
	37		47	7	
	38		56	9	
	39		6:09	7	VIS 43 WT 9.8
34	40		1	8	
	41		19	8	
	42		27	8	
	43		34	7	
	44	6:39	46	7	COMM
34	45		6:57	11	
	46		7:07	10	
	47		15	8	
	48		22	7	
	49		27	5	
34	50		33	5	
	51		38	5	
	52		46	8	
	53		51	5	
	54		58	7	
34	55		6:03	5	
	56		12	9	
	57		18	6	
	58		24	6	
	59		40	16	
	60		47	7	
	61		49	2	
	62		52	3	
	63		52	1	
	64		54	1	
34	65		57	3	
	66		59	2	
	67		9:00	1	
	68		01	1	
	69		02	1	
	70		03	1	
	71		05	2	
	72		09	4	
	73		13	6	
	74		16	3	
34	75	7:25	7:27	2	

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	
Hempden		1			
COUNTY		STATE		CONTRACTOR	
Mush		Kans		Thoroughbred	
				DATE	
				5-7-65	
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3475	76	9:27	9:30	3	
	77		9:33	3	vis 37 wt. 9.9
	78		9:36	3	HOPPER OPEN
	79		9:41	5	
	80		9:49	8	
	81		10:06	17	
	82		10:14	8	HOPPER CLOSED
	83		10:25	11	
	84		10:39	14	
3484	3485		10:52	12	
	86		11:01	9	WELD ON PUMP
	87	2:06	11:15	10	
	88		11:30	14	
	89		11:45	15	
	90		3:00	15	
	91		11:13	13	
	92		11:25	12	
	93		11:37	8	Hopper open
	94		11:45	12	
	95		4:02	17	
	96		11:15	13	Hopper closed
	97		11:26	11	
	98		11:37	11	
	99		11:53	16	
3499	3500		5:00	17	
	1		11:25	15	
	2		11:39	14	
	3		11:55	16	
	4		6:15	20	
3504	3505		11:32	17	
	6		11:47	13	Conn CK rig
	7	7:10	7:19	9	
	8		7:28	9	
	9		7:40	12	
	10		7:53	13	
	11		8:13	20	
	12		8:30	17	Tripp
	13	12:35	8:40	5	
	14		8:45	5	
3514	3515		8:50	5	
	16		8:55	5	
	17		1:03	8	
	18		1:13	9	
	19		1:24	12	Hopper open
	20		1:40	16	
	21		1:53	13	
	22		2:03	10	Hopper closed
	23		2:18	15	
	24		2:33	15	
3524	3525		2:46	13	

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 by the Geologist.

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

FARM: <i>Horn Kn</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Rush</i>	STATE <i>Kan</i>	CONTRACTOR <i>Thoroughbred</i>
		DATE <i>5-8-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
35 25	26	246	303	17	
	27		20	17	
	28		30	10	
	29		41	11	
	30		55	14	
	31		410	15	
	32		22	12	
	33		34	12	
	34		47	13	
	35		507	20	
	36		22	15	
	37		36	14	Conn
	38	5:42	50	8	
	39		58	8	VIS 40 WT 9.9
	40		606	8	
	41		15	9	
	42		25	10	
	43		35	10	
	44		45	10	
	45		55	10	
	46		7:13	18	
	47		128	15	
	48		138	10	
	49		143	5	
	50		144	1	
	51		145	1	
	52		145 1/2	1/2	
	53		146	1/2	
	54		154	8	
	55		8:02	8	
	56	5:08	8:13	5	
	57		119	6	
	58		124	5	
	59		124	10	
	60		139	5	
	61		144	5	
	62		149	5	
	63		157	8	
	64		9:09	12	
	65		119	10	
	66		128	9	
	67		137	9	
	68		145	8	
	69				CONN. SWIVER, HOLLY 1500
	70	9:54	10:01	7	
	71		109	8	
	72		113	4	
	73		119	5	
	74		127	8	
	75		133	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.

TIME LOG

TIME LOG

FARM: Hempden WELL NO. 1 LOCATION \_\_\_\_\_  
 COUNTY \_\_\_\_\_ STATE Kans. CONTRACTOR Thoroughbred DATE 5-8-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
35	75	10:33	10:44	11	
	76				
	77		:52	8	
	78		11:02	10	
	79		:12	10	
	80		:23	11	
	81		:31	8	
	82		:39	8	Vis 37 WT 10
	83		:48	10	
	84		:59	10	
35	85		12:10	11	Hopper open
	86		:28	18	
	87		:47	19	Hopper closed
	88		:55	8	
	89		1:05	10	Vis 39 WT 9.9
	90		:21	16	
	91		:33	12	
	92	4:30	43	13	
	93		:50	7	
	94		56	6	
35	95		5:05	9	
	96		14	9	
	97		23	9	
	98		31	8	
	99		37	6	
36	00		43	6	Conn
	01	5:49	55	6	
	02	6:00	6:00	5	
	03		05	5	
	04		6:12	7	
36	05		:23	10	
	06		:33	10	
	07		:46	13	
	08		53	17	
	09		7:00	7	
	10		:05	5	
	11		:11	6	
	12		:17	6	
	13		:22	6	
	14		7:30	7	
36	15		37	7	
	16		46	8	
	17		56	10	
	18		8:03	7	Vis 42 WT 9-9
	19		10	7	
	20		18	8	
	21		24	6	
	22		41	17	
	23		50	7	
	24		56	6	
36	25		9:03	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.

NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

TIME LOG

FARM: <i>Hemken</i>		WELL NO. <i>21</i>	LOCATION <i>West A Band</i>
COUNTY <i>Rush</i>	STATE <i>Kansas</i>	CONTRACTOR <i>Thoroughbred Co</i>	DATE <i>5-8-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3625	3626	9:03	9:10	7	
	27			19	9
	28			25	6
	29			32	7
	30			39	7
	31			46	7
	32	9:53	10:00	7	Conn
	33			10	10
	34			18	8
3634	3635			25	7
	36			35	10
	37			42	7
	38			50	7
	39			58	8
	40		11:06	8	
	41			15	9
	42			25	10
	43			34	11
	44			46	10
3644	3645		11:56	10	Viz- 40 wt 9%
	46		12:12	30	8
	47			27	7
	48			35	8
	49			41	6
	50		12:49	8	
	51			57	8
	52			10	5
	53			13	8
	54			21	8
3654	3655		1:28	7	
	56			35	7
	57			44	9
	58			53	9
	59		2:00	7	
	60			07	7
	61			17	10
	62			26	9
	63		3:32	7	Conn
	64		2:40	46	6
3664	3665			52	6
	66			58	6
	67		3:06	8	
	68			14	8
	69			21	7
	70		3:29	8	
	71			39	10
	72			49	10
	73			58	9
	74		4:08	10	
3674	3675			4:17	9

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible. Do not scribble or make corrections on original. Make these reports on National Associated Petroleum Company, Tulsa, Oklahoma, Report Form No. 23A, unless 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		
Hemken		#1			
COUNTY		STATE	CONTRACTOR		DATE
Push		Kansas	Thir-nugh broed n/geo		5-9-65
DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3675	3676	4:17	4:26	9	Vis - 40 wt 99
	77		34	8	
	78		42	8	SR
	79		52	10	
	3680		5:02	10	SR
	81		12	10	SR
	82		22	10	"
	83		32	11	
	84		44	11	
3684	85		5:55	11	
	86		6:02	7	Circ 7/sample
	87	2:50	2:55	5	
	88		3:10	5	
	89		4	4	
	3690		3:09	5	
	91		15	6	
	92		20	5	
	93		26	6	
	94		31	5	conn e K rig
3694	95	3:40	44	4	
	96		49	5	
	97		53	4	
	98		4:00	7	Rough
	99		8	8	R
	3700		4:15	7	
	1		22	7	Circ for samples
	2	5:31	37	6	
	3		43	6	Vis-43-wt 99
	4		48	5	
3704	5		54	6	
	6		6:01	7	
	7		7	6	
	8		15	8	
	9		24	9	
	3710		31	7	
	11		39	8	
	12		47	8	Rough
	13		52	5	"
	14		57	5	"
3714	15		7:05	8	Circ for samples DS+ #2
	16	5:00	5:07	7	
	17		17	7	
	18		19	5	
	19		25	6	
	3720		30	5	
	21		36	6	
	22		41	5	
	23		46	5	
	24		51	5	
3724	25		5:57	6	

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible. If the contractor is drilling, the well must be cased by National Associated Petroleum Company, Tulsa, Oklahoma, Oklahoma State, or by the contractor, if they have not been picked up at the well by the Contractor.

# NATIONAL ASSOCIATED PETROLEUM COMPANY

FIFTH FLOOR RITZ BUILDING  
TULSA 3, OKLAHOMA

## TIME LOG

FARM: <i>Hem Ken</i>	WELL NO. <i>1</i>	LOCATION
COUNTY <i>Rush</i>	STATE <i>Ks</i>	CONTRACTOR <i>Thoroughbred</i>
		DATE <i>5-10-65</i>

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
<i>2725</i>	<i>2726</i>	<i>6:03</i>	<i>6:09</i>	<i>6</i>	<i>Conn</i>
	<i>27</i>		<i>15</i>	<i>6</i>	
	<i>28</i>		<i>20</i>	<i>5</i>	
	<i>29</i>		<i>26</i>	<i>6</i>	
	<i>30</i>		<i>31</i>	<i>5</i>	
	<i>31</i>		<i>37</i>	<i>6</i>	
	<i>32</i>		<i>1:43</i>	<i>6</i>	
	<i>33</i>		<i>47</i>	<i>5</i>	
	<i>34</i>		<i>:51</i>	<i>5</i>	
<i>2734</i>	<i>3735</i>		<i>:57</i>	<i>6</i>	
	<i>36</i>		<i>7:01</i>	<i>4</i>	<i>Rough</i>
	<i>37</i>		<i>:07</i>	<i>6</i>	
	<i>38</i>		<i>:15</i>	<i>8</i>	
	<i>39</i>		<i>:20</i>	<i>5</i>	<i>Rough</i>
	<i>3740</i>	<i>7:26</i>	<i>26</i>	<i>6</i>	<i>Circ FOR SAMPLES</i>
	<i>41</i>	<i>8:15</i>	<i>:20</i>	<i>5</i>	
	<i>42</i>		<i>:27</i>	<i>7</i>	
	<i>43</i>		<i>:37</i>	<i>10</i>	
	<i>44</i>		<i>:47</i>	<i>10</i>	
<i>3744</i>	<i>45</i>		<i>:57</i>	<i>10</i>	
	<i>46</i>		<i>9:03</i>	<i>6</i>	
	<i>47</i>		<i>:15</i>	<i>12</i>	<i>WORK ON DWTS</i>
	<i>48</i>		<i>:25</i>	<i>10</i>	
	<i>49</i>		<i>:35</i>	<i>10</i>	
	<i>2750</i>		<i>:43</i>	<i>8</i>	<i>CIRCL LOG</i>
	<i>51</i>				
	<i>52</i>				
	<i>53</i>				
	<i>54</i>				
	<i>2755</i>				
	<i>56</i>				
	<i>57</i>				
	<i>58</i>				
	<i>59</i>				
	<i>60</i>				

INSTRUCTIONS: Fill out this report in TRIPLICATE (Original and two carbon copies). Special care must be given to making this report legible. If the Contractor is drilling, this report is only for National Petroleum Association Company, 5500 Broadway, New York, New York, if they have not been picked up at the well by the Geologist.