

Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Hinkle Oil Company Lease & Well No. #5 "A" Spence

Elevation -- Formation Kansas City Effective Pay --- Ft. Ticket No. 17624

Date 1/ 21 /83 Sec. 35 Twp. 23S Range 18W County Pawnee State Kansas

Test Approved by Orvie Howell Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 4048 ft. to 4095 ft. Total Depth 4095 ft.

Packer Depth 4043 ft. Size 6 5/8 in. Packer Depth 4048 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4085 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4088 ft. Recorder Number 13240 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger Drlg. Rig #9 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 44 Weight Pipe Length 900 I. D. 2.8 in.

Weight 9.6 Water Loss 8.8 cc. Drill Pipe Length 3127 I. D. 3.8 in.

Chlorides 61,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 47 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Steady three inch blow throughout initial flow period. Two inch blow throughout final flow period.

Recovered 195 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Some plugging action on flow periods.

MISRUN

Time Set Packer(s) 8:43 ~~A.M.~~ P.M. Time Started Off Bottom 11:30 ~~A.M.~~ P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 2111 P.S.I.

Initial Flow Period 30 Minutes (B) 86 * P.S.I. to (C) 113 * P.S.I.

Initial Closed In Period 27 Minutes (D) 571 P.S.I.

Final Flow Period 70 Minutes (E) 133 * P.S.I. to (F) 159 * P.S.I.

Final Closed In Period 33 Minutes (G) 439 P.S.I.

Final Hydrostatic Pressure (H) 2111 P.S.I.

Pressure Data

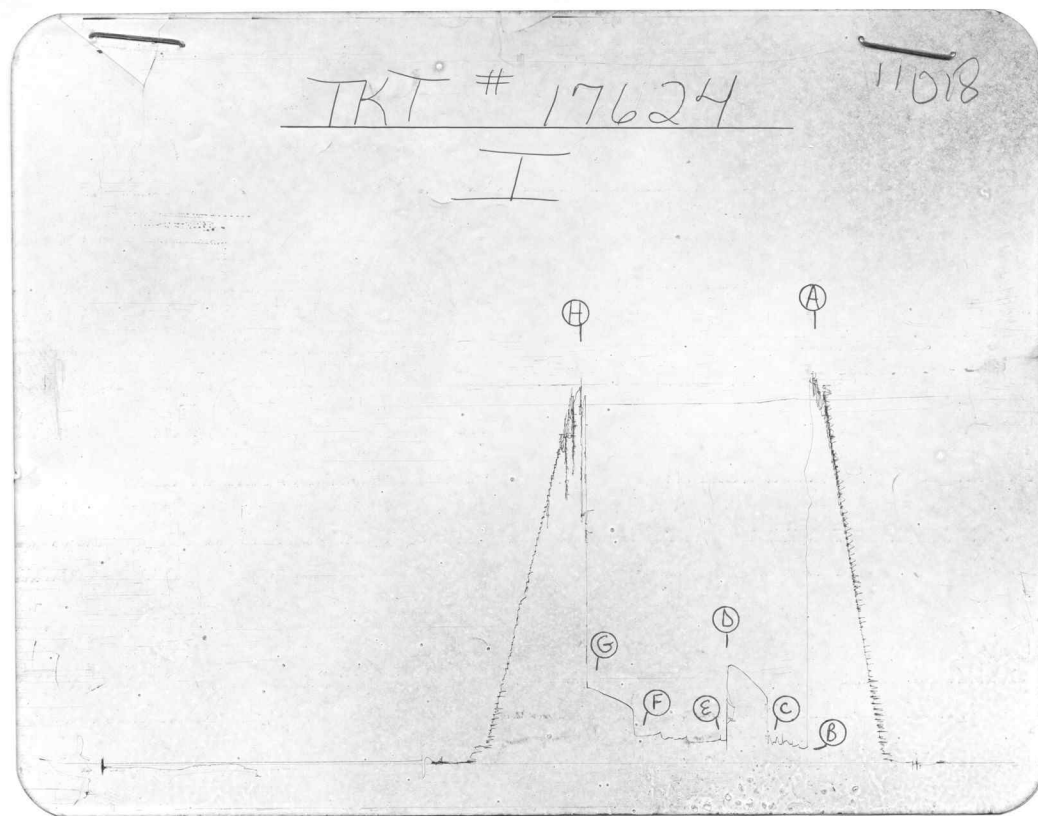
Date 1/21/83Test Ticket No. 17624Recorder No. 11018 Capacity 4425 Location 4085 Ft.Clock No. -- Elevation ---- Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	2111	P.S.I.	8:43P	M
B First Initial Flow Pressure	86 *	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	113 *	P.S.I.	30	Mins. 27 Mins.
D Initial Closed-in Pressure	571	P.S.I.	60	Mins. 70 Mins.
E Second Initial Flow Pressure	133 *	P.S.I.	45	Mins. 33 Mins.
F Second Final Flow Pressure	159 *	P.S.I.		
G Final Closed-in Pressure	439	P.S.I.		
H Final Hydrostatic Mud	2111	P.S.I.		

* PRESSURES QUESTIONABLE DUE TO PLUGGING
ACTION

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>11</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press. *
P 1 0	86 *	0	113 *	0	133*	0	159 *
P 2 5	90 *	3	420	5	166*	3	329
P 3 10	99 *	6	446	10	129*	6	347
P 4 15	133 *	9	469	15	126*	9	359
P 5 20	110 *	12	492	20	124*	12	372
P 6 25	122 *	15	514	25	123*	15	382
P 7 30	113 *	18	533	30	162*	18	391
P 8		21	552	35	147*	21	401
P 9		24	565	40	149*	24	412
P10		27	571	45	142*	27	423
P11				50	178*	30	432
P12				55	164*	33	439
P13				60	161*		
P14				65	159*		
P15				70	159*		
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2100	2111 PSI
(B) First Initial Flow Pressure	77	86 * PSI
(C) First Final Flow Pressure	111	113 * PSI
(D) Initial Closed-in Pressure	566	571 PSI
(E) Second Initial Flow Pressure	122	133 * PSI
(F) Second Final Flow Pressure	155	159 * PSI
(G) Final Closed-in Pressure	433	439 PSI
(H) Final Hydrostatic Mud	2100	2111 PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Hinkle Oil Company Lease & Well No. #5 "A" SpenceElevation -- Formation Kansas City Effective Pay --- Ft. Ticket No. 17625Date 1/ 22 /83 Sec. 35 Twp. 23S Range 18W County Pawnee State KansasTest Approved by Orvie Howell Western Representative Denis WondraFormation Test No. 2 Interval Tested from 4050 ft. to 4095 ft. Total Depth 4095 ft.Packer Depth 4045 ft. Size 6 5/8 in. Packer Depth 4050 ft. Size 6 5/8 in.Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.Depth of Selective Zone Set -Top Recorder Depth (Inside) 4055 ft. Recorder Number 11018 Cap. 4425Bottom Recorder Depth (Outside) 4058 ft. Recorder Number 13240 Cap. 4500Below Straddle Recorder Depth - ft. Recorder Number - Cap. -Drilling Contractor Red Tiger Drlg. Rig #9Drill Collar Length - I. D. - in.Mud Type starch Viscosity 46Weight Pipe Length 900 I. D. 2.8 in.Weight 9.8 Water Loss 10.2 cc.Drill Pipe Length 3129 I. D. 3.8 in.Chlorides 63,000 P.P.M.Test Tool Length 21 ft. Tool Size 5 1/2 OD in.Jars: Make - Serial Number -Anchor Length 45 ft. Size 5 1/2 OD in.Did Well Flow? No Reversed Out NoSurface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.Blow: Good. Increased to very good by end of initial flow period. Very good throughout final flow period.Recovered 960 ft. of gas in pipeRecovered 240 ft. of gassy oil cut mudRecovered 3 ft. of free oil on top of toolRecovered - ft. of -Recovered - ft. of -

Remarks:

Time Set Packer(s) 11:28 A.M. Time Started Off Bottom 2:45 A.M. Maximum Temperature 118°Initial Hydrostatic Pressure (A) 2111 P.S.I.Initial Flow Period Minutes 30 (B) 58 P.S.I. to (C) 63 P.S.I.Initial Closed In Period Minutes 30 (D) 507 P.S.I.Final Flow Period Minutes 85 (E) 95 P.S.I. to (F) 116 P.S.I.Final Closed In Period Minutes 45 (G) 484 P.S.I.Final Hydrostatic Pressure (H) 2080 P.S.I.

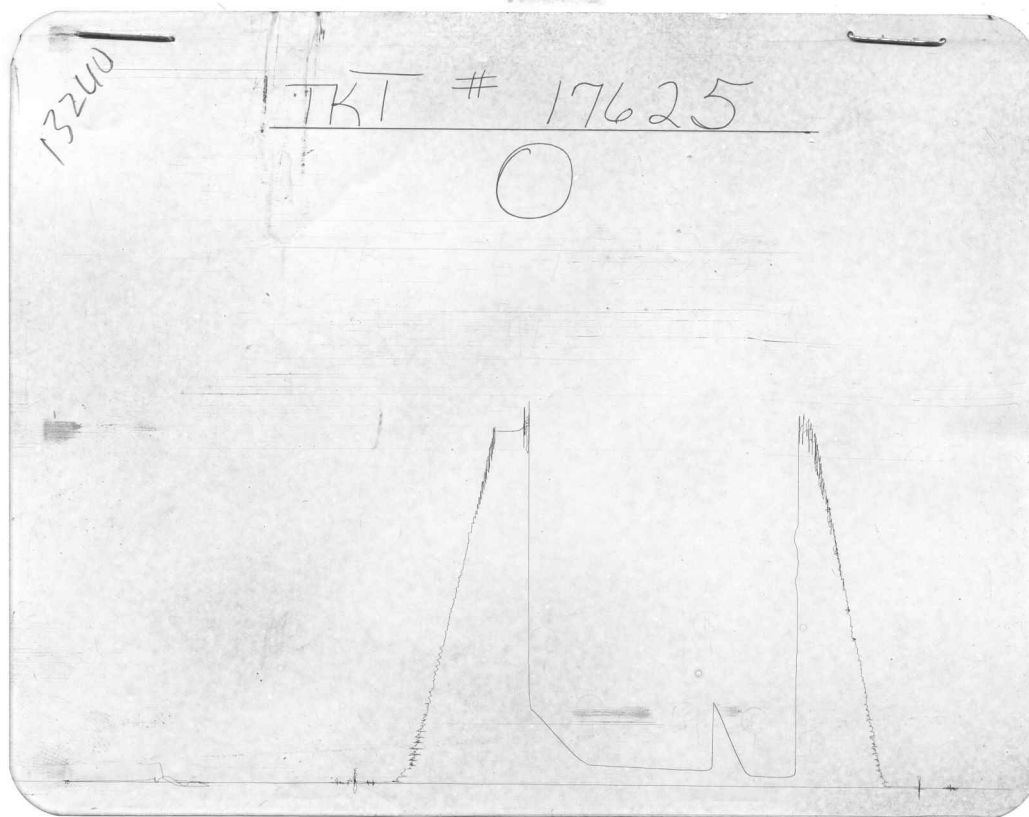
Pressure Data

Date 1/22/83Test Ticket No. 17625Recorder No. 11018Capacity 4425Location 4055 Ft.Clock No. --- Elevation ---Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2111</u> P.S.I.	Open Tool	<u>11:28A</u> M	
B First Initial Flow Pressure	<u>58</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>63</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>507</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>85</u> Mins.
E Second Initial Flow Pressure	<u>95</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>116</u> P.S.I.			
G Final Closed-in Pressure	<u>484</u> P.S.I.			
H Final Hydrostatic Mud	<u>2080</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>17</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>58</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>95</u>	<u>0</u>	<u>116</u>
P 2 <u>5</u>	<u>58</u>	<u>3</u>	<u>90</u>	<u>5</u>	<u>95</u>	<u>3</u>	<u>132</u>
P 3 <u>10</u>	<u>58</u>	<u>6</u>	<u>119</u>	<u>10</u>	<u>95</u>	<u>6</u>	<u>152</u>
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>152</u>	<u>15</u>	<u>96</u>	<u>9</u>	<u>177</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>227</u>	<u>20</u>	<u>97</u>	<u>12</u>	<u>196</u>
P 6 <u>25</u>	<u>61</u>	<u>15</u>	<u>288</u>	<u>25</u>	<u>98</u>	<u>15</u>	<u>218</u>
P 7 <u>30</u>	<u>63</u>	<u>18</u>	<u>333</u>	<u>30</u>	<u>99</u>	<u>18</u>	<u>246</u>
P 8		<u>21</u>	<u>372</u>	<u>35</u>	<u>100</u>	<u>21</u>	<u>276</u>
P 9		<u>24</u>	<u>438</u>	<u>40</u>	<u>102</u>	<u>24</u>	<u>304</u>
P10		<u>27</u>	<u>492</u>	<u>45</u>	<u>104</u>	<u>27</u>	<u>330</u>
P11		<u>30</u>	<u>507</u>	<u>50</u>	<u>107</u>	<u>30</u>	<u>357</u>
P12				<u>55</u>	<u>108</u>	<u>33</u>	<u>383</u>
P13				<u>60</u>	<u>109</u>	<u>36</u>	<u>407</u>
P14				<u>65</u>	<u>111</u>	<u>39</u>	<u>437</u>
P15				<u>70</u>	<u>112</u>	<u>42</u>	<u>456</u>
P16				<u>75</u>	<u>113</u>	<u>45</u>	<u>484</u>
P17				<u>80</u>	<u>114</u>		
P18				<u>85</u>	<u>116</u>		
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2111	2111	PSI
(B) First Initial Flow Pressure	44	58	PSI
(C) First Final Flow Pressure	55	63	PSI
(D) Initial Closed-in Pressure	500	507	PSI
(E) Second Initial Flow Pressure	88	95	PSI
(F) Second Final Flow Pressure	111	116	PSI
(G) Final Closed-in Pressure	466	484	PSI
(H) Final Hydrostatic Mud	2100	2080	PSI