



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Hinkle Oil Company

Lease & Well No. _____

Spence "A" #3

Elevation ---- Formation ----- Effective Pay ----- Ft. Ticket No. 11443

Date 6/2/81 Sec. 35 Twp. 23S Range 18W County Pawnee State Kansas

Test Approved by Orvie Howell Western Representative Ray Schwager

Formation Test No. 1 Interval Tested from 4071 ft. to 4150 ft. Total Depth 4150 ft.

Packer Depth 4066 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4071 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4072 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 4075 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Dunne Gardner Drlg. Rig #2

Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 43

Weight Pipe Length 480 I. D. 2.7 in.

Weight 9.9 Water Loss 12.2 cc.

Drill Pipe Length 3569 I. D. 3.8 in.

Chlorides 45,000 P.P.M.

Test Tool Length 22 ft. Tool Size 4 1/2 in.

Jars: Make - Serial Number -

Anchor Length 79 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No

Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

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

Initial flow good blow building to strong blow. Strong blow throughout final flow.

Blow: _____

Recovered 240 ft. of gas in pipe
Recovered 123 ft. of gas and oil cut mud
Recovered 310 ft. of heavy oil and gas cut mud
Recovered 868 ft. of gassy muddy oil
Recovered 124 ft. of oil cut water

Remarks: _____

Time Set Packer(s) 1:00 A.M. Time Started Off Bottom 3:45 A.M. Maximum Temperature 105

Initial Hydrostatic Pressure (A) 2253 P.S.I.

Initial Flow Period Minutes 30 (B) 101 P.S.I. to (C) 319 P.S.I.

Initial Closed In Period Minutes 30 (D) 1107 P.S.I.

Final Flow Period Minutes 54 (E) 341 P.S.I. to (F) 539 P.S.I.

Final Closed In Period Minutes 45 (G) 1061 P.S.I.

Final Hydrostatic Pressure (H) 2165 P.S.I.

WESTERN TESTING CO., INC.

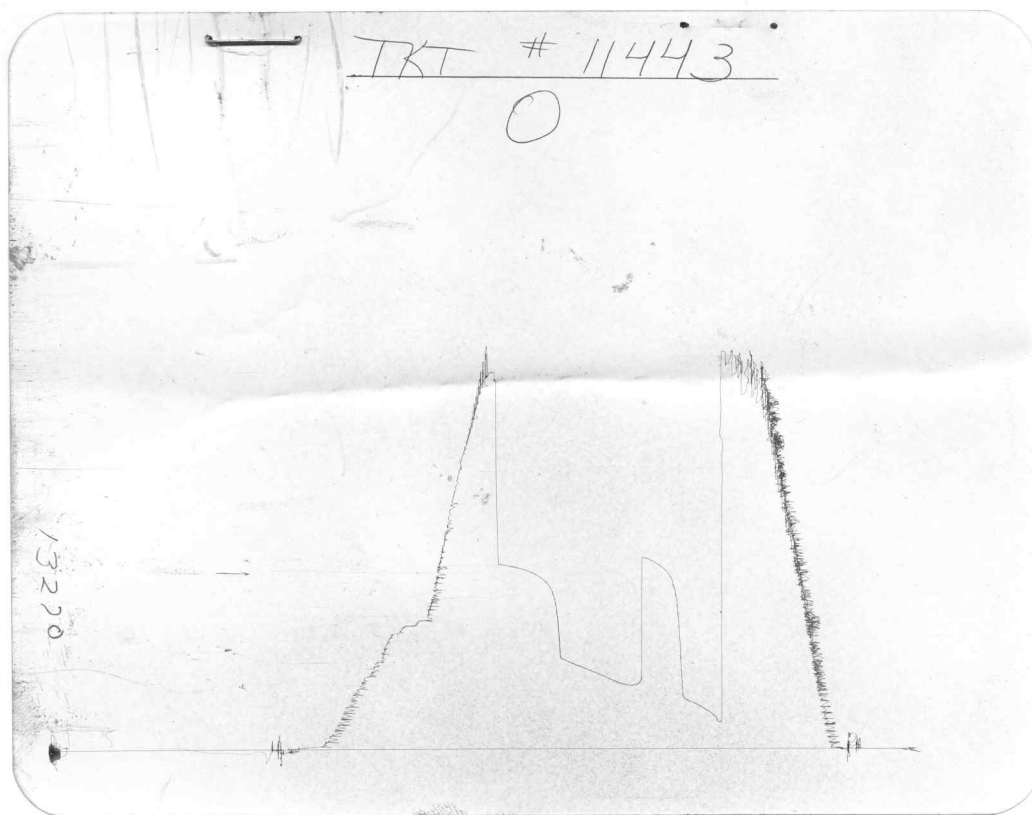
Pressure Data

Date 6/2/81 Recorder No. 13269 Capacity 4375 Test Ticket No. 11443
 Clock No. - Elevation -- Location 4072 Ft. Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2253	P.S.I.	1:00A	M
B First Initial Flow Pressure	101	P.S.I.	30	Mins.
C First Final Flow Pressure	319	P.S.I.	30	Mins.
D Initial Closed-in Pressure	1107	P.S.I.	60	Mins.
E Second Initial Flow Pressure	341	P.S.I.	45	Mins.
F Second Final Flow Pressure	539	P.S.I.		
G Final Closed-in Pressure	1061	P.S.I.		
H Final Hydrostatic Mud	2165	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>15</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 <u>0</u>	<u>101</u>	<u>0</u>	<u>319</u>	<u>0</u>	<u>341</u>	<u>0</u>	<u>539</u>
P 2 <u>5</u>	<u>205</u>	<u>3</u>	<u>898</u>	<u>5</u>	<u>350</u>	<u>3</u>	<u>889</u>
P 3 <u>10</u>	<u>242</u>	<u>6</u>	<u>996</u>	<u>10</u>	<u>372</u>	<u>6</u>	<u>952</u>
P 4 <u>15</u>	<u>264</u>	<u>9</u>	<u>1033</u>	<u>15</u>	<u>390</u>	<u>9</u>	<u>978</u>
P 5 <u>20</u>	<u>278</u>	<u>12</u>	<u>1055</u>	<u>20</u>	<u>410</u>	<u>12</u>	<u>998</u>
P 6 <u>25</u>	<u>297</u>	<u>15</u>	<u>1068</u>	<u>25</u>	<u>425</u>	<u>15</u>	<u>1009</u>
P 7 <u>30</u>	<u>319</u>	<u>18</u>	<u>1081</u>	<u>30</u>	<u>443</u>	<u>18</u>	<u>1018</u>
P 8		<u>21</u>	<u>1090</u>	<u>35</u>	<u>458</u>	<u>21</u>	<u>1026</u>
P 9		<u>24</u>	<u>1099</u>	<u>40</u>	<u>471</u>	<u>24</u>	<u>1033</u>
P10		<u>27</u>	<u>1103</u>	<u>45</u>	<u>489</u>	<u>27</u>	<u>1039</u>
P11		<u>30</u>	<u>1107</u>	<u>50</u>	<u>502</u>	<u>30</u>	<u>1044</u>
P12				<u>55</u>	<u>520</u>	<u>33</u>	<u>1048</u>
P13				<u>60</u>	<u>530</u>	<u>36</u>	<u>1053</u>
P14				<u>65</u>	<u>539</u>	<u>39</u>	<u>1056</u>
P15						<u>42</u>	<u>1059</u>
P16						<u>45</u>	<u>1061</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2242	2253	PSI
(B) First Initial Flow Pressure	99	101	PSI
(C) First Final Flow Pressure	308	319	PSI
(D) Initial Closed-in Pressure	1105	1107	PSI
(E) Second Initial Flow Pressure	341	341	PSI
(F) Second Final Flow Pressure	517	539	PSI
(G) Final Closed-in Pressure	1061	1061	PSI
(H) Final Hydrostatic Mud	2165	2165	PSI



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Company Hinkle Oil Company Lease & Well No. Spence "A" #3
Elevation --- Formation --- Effective Pay --- Ft. Ticket No. 11444
Date 6/4/81 Sec. 35 Twp. 23S Range 18W County Pawnee State Kansas
Test Approved by Orvie Howell Western Representative Ray Schwager
Formation Test No. 2 Interval Tested from 4436 ft. to 4450 ft. Total Depth 4450 ft.
Packer Depth 4431 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4436 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4438 ft. Recorder Number 13269 Cap. 4375
Bottom Recorder Depth (Outside) 4441 ft. Recorder Number 13270 Cap. 4375
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Dunne-Gardner Drlg. Rig #2 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 55 Weight Pipe Length 600 I. D. 2.7 in.
Weight 10.2 Water Loss 13.3 cc. Drill Pipe Length 3814 I. D. 3.8 in.
Chlorides 42,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.
Jars: Make - Serial Number - Anchor Length 14 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout initial flow period. Fair blow building to strong blow on final flow.

Recovered 120 ft. of gas in pipe
Recovered 270 ft. of gassy oil cut mud
Recovered 30 ft. of oil and gas cut watery mud
Recovered 60 ft. of muddy salt water
Recovered ft. of

Remarks:

Time Set Packer(s) 10:50 ~~==A.M.~~ P.M. Time Started Off Bottom 1:20 ~~P.M.~~ A.M. Maximum Temperature 112
Initial Hydrostatic Pressure 2463 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 69 P.S.I. to (C) 97 P.S.I.
Initial Closed In Period 30 Minutes (D) 870 P.S.I.
Final Flow Period 60 Minutes (E) 112 P.S.I. to (F) 152 P.S.I.
Final Closed In Period 30 Minutes (G) 789 P.S.I.
Final Hydrostatic Pressure 2385 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 6/4/81 Test Ticket No. 11444

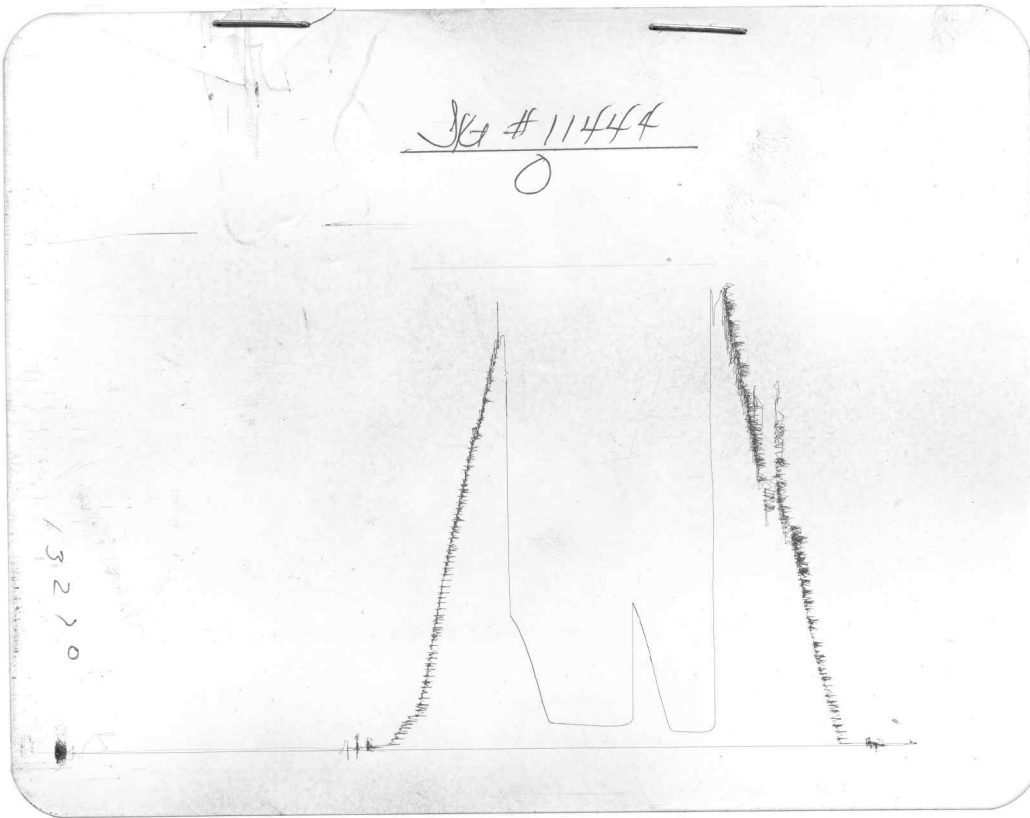
Recorder No. 13269 Capacity 4375 Location 4438 Ft.

Clock No. --- Elevation ---- Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2463</u> P.S.I.	Open Tool	<u>10:50P</u>	<u>M</u>
B First Initial Flow Pressure	<u>69</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>97</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>870</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>112</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
F Second Final Flow Pressure	<u>152</u> P.S.I.			
G Final Closed-in Pressure	<u>789</u> P.S.I.			
H Final Hydrostatic Mud	<u>2385</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</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 <u>0</u>	<u>69</u>	<u>0</u>	<u>97</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>152</u>
P 2 <u>5</u>	<u>73</u>	<u>3</u>	<u>145</u>	<u>5</u>	<u>114</u>	<u>3</u>	<u>220</u>
P 3 <u>10</u>	<u>79</u>	<u>6</u>	<u>233</u>	<u>10</u>	<u>119</u>	<u>6</u>	<u>306</u>
P 4 <u>15</u>	<u>84</u>	<u>9</u>	<u>330</u>	<u>15</u>	<u>123</u>	<u>9</u>	<u>394</u>
P 5 <u>20</u>	<u>87</u>	<u>12</u>	<u>425</u>	<u>20</u>	<u>128</u>	<u>12</u>	<u>474</u>
P 6 <u>25</u>	<u>92</u>	<u>15</u>	<u>535</u>	<u>25</u>	<u>132</u>	<u>15</u>	<u>550</u>
P 7 <u>30</u>	<u>97</u>	<u>18</u>	<u>628</u>	<u>30</u>	<u>134</u>	<u>18</u>	<u>613</u>
P 8		<u>21</u>	<u>711</u>	<u>35</u>	<u>137</u>	<u>21</u>	<u>667</u>
P 9		<u>24</u>	<u>778</u>	<u>40</u>	<u>139</u>	<u>24</u>	<u>713</u>
P10		<u>27</u>	<u>835</u>	<u>45</u>	<u>141</u>	<u>27</u>	<u>750</u>
P11		<u>30</u>	<u>870</u>	<u>50</u>	<u>144</u>	<u>30</u>	<u>789</u>
P12				<u>55</u>	<u>148</u>		
P13				<u>60</u>	<u>152</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2484	2463	PSI
(B) First Initial Flow Pressure	66	69	PSI
(C) First Final Flow Pressure	99	97	PSI
(D) Initial Closed-in Pressure	865	870	PSI
(E) Second Initial Flow Pressure	110	112	PSI
(F) Second Final Flow Pressure	132	152	PSI
(G) Final Closed-in Pressure	778	789	PSI
(H) Final Hydrostatic Mud	2385	2385	PSI