

Company Imperial Oil Company Lease & Well No. Jenkins #1-11
Elevation 2063 Kelly Bushing Formation Douglas Sand Effective Pay -- Ft. Ticket No. 1129
Date 1/29/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 3850 ft. to 3970 ft. Total Depth 3970 ft.

Packer Depth 3845 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3850 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3957 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 3960 ft. Recorder Number 2603 Cap. 4400

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

Drilling Contractor Red Tiger #6 Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 56 Weight Pipe Length 1140 I. D. 2 1/4 in.

Weight 9.5 Water Loss 72 cc. Drill Pipe Length 2682 I. D. 3.8 in.

Chlorides 26,000 P.P.M. Test Tool Length 148' in. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 407 Anchor Length 120' ft. Size 5 1/2 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 - in.

Blow: Weak blow increasing to fair and decreasing back to weak on first flow period/fair blow on final flow period.

Recovered 785 ft. of muddy salt water

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 4:50 A.M. PM Time Started Off Bottom 8:20 A.M. PM Maximum Temperature 122

Initial Hydrostatic Pressure 2000 (A) - P.S.I.

Initial Flow Period 45 Minutes (B) 125 P.S.I. to (C) 293 P.S.I.

Initial Closed In Period 60 Minutes (D) 1510 P.S.I.

Final Flow Period 45 Minutes (E) 330 P.S.I. to (F) 463 P.S.I.

Final Closed In Period 60 Minutes (G) 1508 P.S.I.

Final Hydrostatic Pressure 1958 (H) - P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

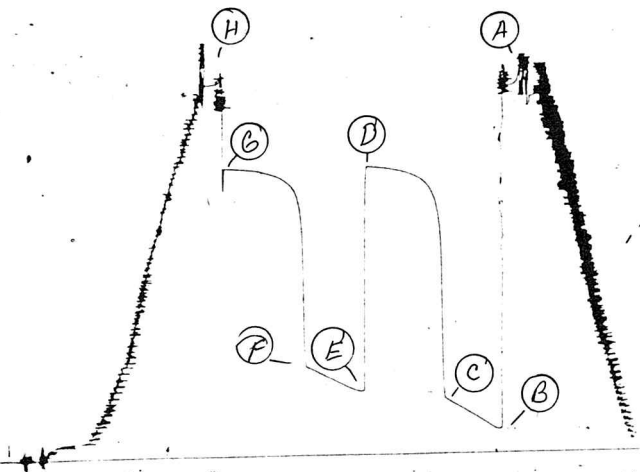
Date 1/29/79 Test Ticket No. 1129
 Recorder No. 969 Capacity 4200 Location 3957 Ft.
 Clock No. -- Elevation 2063 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2000 P.S.I.	Open Tool	4:50A M	
B First Initial Flow Pressure	125 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C First Final Flow Pressure	293 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1510 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	330 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	463 P.S.I.			
G Final Closed-in Pressure	1508 P.S.I.			
H Final Hydrostatic Mud	1958 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>20</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>125</u>	<u>0</u>	<u>293</u>	<u>0</u>	<u>330</u>	<u>0</u>	<u>463</u>
P 2 <u>5</u>	<u>133</u>	<u>3</u>	<u>859</u>	<u>5</u>	<u>336</u>	<u>3</u>	<u>1096</u>
P 3 <u>10</u>	<u>162</u>	<u>6</u>	<u>1265</u>	<u>10</u>	<u>348</u>	<u>6</u>	<u>1317</u>
P 4 <u>15</u>	<u>184</u>	<u>9</u>	<u>1354</u>	<u>15</u>	<u>371</u>	<u>9</u>	<u>1385</u>
P 5 <u>20</u>	<u>207</u>	<u>12</u>	<u>1399</u>	<u>20</u>	<u>387</u>	<u>12</u>	<u>1416</u>
P 6 <u>25</u>	<u>229</u>	<u>15</u>	<u>1426</u>	<u>25</u>	<u>404</u>	<u>15</u>	<u>1436</u>
P 7 <u>30</u>	<u>250</u>	<u>18</u>	<u>1446</u>	<u>30</u>	<u>422</u>	<u>18</u>	<u>1445</u>
P 8 <u>35</u>	<u>268</u>	<u>21</u>	<u>1459</u>	<u>35</u>	<u>436</u>	<u>21</u>	<u>1454</u>
P 9 <u>40</u>	<u>280</u>	<u>24</u>	<u>1467</u>	<u>40</u>	<u>450</u>	<u>24</u>	<u>1463</u>
P10 <u>45</u>	<u>293</u>	<u>27</u>	<u>1475</u>	<u>45</u>	<u>463</u>	<u>27</u>	<u>1472</u>
P11		<u>30</u>	<u>1484</u>			<u>30</u>	<u>1481</u>
P12		<u>33</u>	<u>1488</u>			<u>33</u>	<u>1485</u>
P13		<u>36</u>	<u>1492</u>			<u>36</u>	<u>1489</u>
P14		<u>39</u>	<u>1496</u>			<u>39</u>	<u>1494</u>
P15		<u>42</u>	<u>1499</u>			<u>42</u>	<u>1497</u>
P16		<u>45</u>	<u>1502</u>			<u>45</u>	<u>1500</u>
P17		<u>48</u>	<u>1504</u>			<u>48</u>	<u>1502</u>
P18		<u>51</u>	<u>1506</u>			<u>51</u>	<u>1504</u>
P19		<u>54</u>	<u>1508</u>			<u>54</u>	<u>1506</u>
P20		<u>57</u>	<u>1509</u>			<u>57</u>	<u>1507</u>
		<u>60</u>	<u>1510</u>			<u>60</u>	<u>1508</u>

969

TKL # 1129I

Company Imperial Oil Company Lease & Well No. Jenkins #1-11
Elevation 2063 Kelly Bushing Kansas City Formation --- Effective Pay --- Ft. Ticket No. 1130
Date 1/30/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
Test Approved by Peter Stubbs Western Representative W. K. Hager

Formation Test No. 2 Interval Tested from 4053' ft. to 4065' ft. Total Depth 4105' ft.

Packer Depth 4048 ft. Size 6 3/4 in. Packer Depth 4065 ft. Size 6 3/4 in.

Packer Depth 4053 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4058 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4061 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth 4095 ft. Recorder Number WTC Cap. ---

Drilling Contractor Red Tiger #6

Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 49

Weight Pipe Length 1140 I. D. 2 1/4 in.

Weight 9.3 Water Loss 18.4 cc.

Drill Pipe Length 2881 I. D. 3.8 in.

Chlorides 34,000 P.P.M.

Test Tool Length 84' ~~ft.~~ Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 407

Anchor Length 12' ft. Size 5 1/2 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 FH in.

Blow: See remarks.

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Remarks: Charged Misrun--lacked 250 feet of getting to bottom/hit a bridge.

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature -

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

Initial Flow Period --- Minutes --- (B) --- P.S.I. to (C) --- P.S.I.

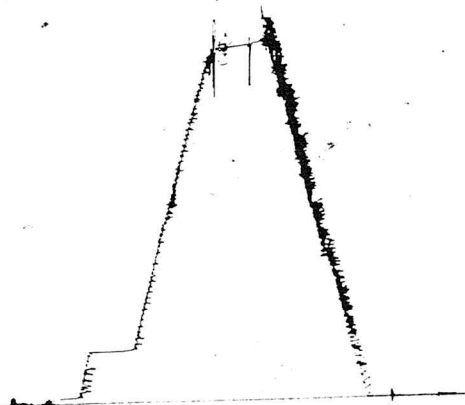
Initial Closed In Period --- Minutes --- (D) --- P.S.I.

Final Flow Period --- Minutes --- (E) --- P.S.I. to (F) --- P.S.I.

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

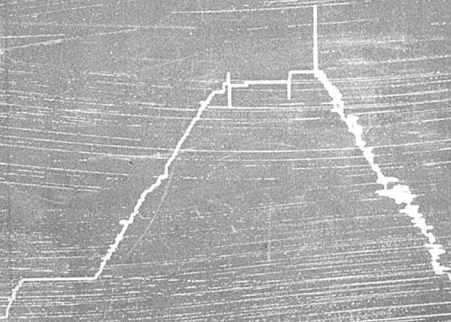
Final Hydrostatic Pressure --- (H) --- P.S.I.

TKT # 1130
I



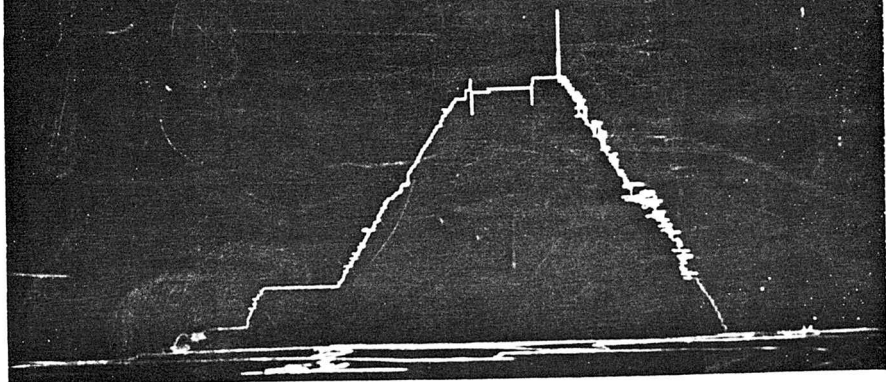
100

TR # 1130
Below 5' m.e



Trk # 1130
Below 8.000'e

11-11



Company Imperial Oil Company Lease & Well No. Jenkins #1-11
Elevation 2063 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 1131
Date 1/30/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative Will K. Hager

Formation Test No. 3 Interval Tested from 4053' ft. to 4065' ft. Total Depth 4105' ft.

Packer Depth 4048 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4053 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4058 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4061 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth 4095 ft. Recorder Number WTC Cap. -

Drilling Contractor Red Tiger #6 Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 49 Weight Pipe Length 1140 I. D. 2 1/4 in.

Weight 9.3 Water Loss 18.4 cc. Drill Pipe Length 2881 I. D. 3.8 in.

Chlorides 34,000 P.P.M. Test Tool Length 84' in. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 407 Anchor Length 12' ft. Size 5 1/2 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 FH in.

Blow: Strong blow on initial flow period/strong blow on final flow period.

Recovered 240 ft. of gas in pipe

Recovered 145 ft. of oil cut mud

Recovered 60 ft. of gassy mud cut oil

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:35 A.M. Time Started Off Bottom 10/45 A.M. Maximum Temperature 123 P.M.

Initial Hydrostatic Pressure 2027 P.S.I. (A)

Initial Flow Period 60 Minutes (B) 80 P.S.I. to (C) 36 P.S.I.

Initial Closed In Period 90 Minutes (D) 865 P.S.I.

Final Flow Period 60 Minutes (E) 108 P.S.I. to (F) 106 P.S.I.

Final Closed In Period 90 Minutes (G) 760 P.S.I.

Final Hydrostatic Pressure 2011 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 1/30/79 Test Ticket No. 1131
 Recorder No. 969 Capacity 4200 Location 4058 Ft.
 Clock No. -- Elevation 2063 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2027	P.S.I.	5:35P	M
B First Initial Flow Pressure	80	P.S.I.	60	Mins. 60 Mins.
C First Final Flow Pressure	86	P.S.I.	90	Mins. 90 Mins.
D Initial Closed-in Pressure	865	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	108	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	106	P.S.I.		
G Final Closed-in Pressure	760	P.S.I.		
H Final Hydrostatic Mud	2011	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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	80	0	86	0	108	0	106
P 2 5	72	3	92	5	100	3	117
P 3 10	70	6	108	10	99	6	139
P 4 15	70	9	131	15	99	9	167
P 5 20	70	12	168	20	99	12	195
P 6 25	72	15	209	25	99	15	223
P 7 30	74	18	248	30	99	18	251
P 8 35	75	21	293	35	99	21	280
P 9 40	78	24	331	40	102	24	308
P10 45	82	27	369	45	103	27	336
P11 50	82	30	407	50	104	30	364
P12 55	84	33	445	55	105	33	394
P13 60	86	36	483	60	106	36	424
P14		39	527			39	453
P15		42	557			42	477
P16		45	588			45	500
P17		48	602			48	520
P18		51	626			51	541
P19		54	650			54	561
P20		57	676			57	579
		60	709			60	600

WESTERN TESTING CO., INC.

Pressure Data

Date 1/30/79 Test Ticket No. 1131
 Recorder No. 969 Capacity 4200 Location 4058 Ft.
 Clock No. -- Elevation 2063 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2027	P.S.I.	5:35P	M
B First Initial Flow Pressure	80	P.S.I.	60	Mins. 60 Mins.
C First Final Flow Pressure	86	P.S.I.	90	Mins. 90 Mins.
D Initial Closed-in Pressure	865	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	108	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	106	P.S.I.		
G Final Closed-in Pressure	760	P.S.I.		
H Final Hydrostatic Mud	2011	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>30</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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		63	729			63	620
P 2		66	748			66	638
P 3		69	766			69	647
P 4		72	785			72	668
P 5		75	805			75	690
P 6		78	817			78	706
P 7		81	829			81	718
P 8		84	841			84	732
P 9		87	853			87	746
P10		90	865			90	760
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.

Pressure Data

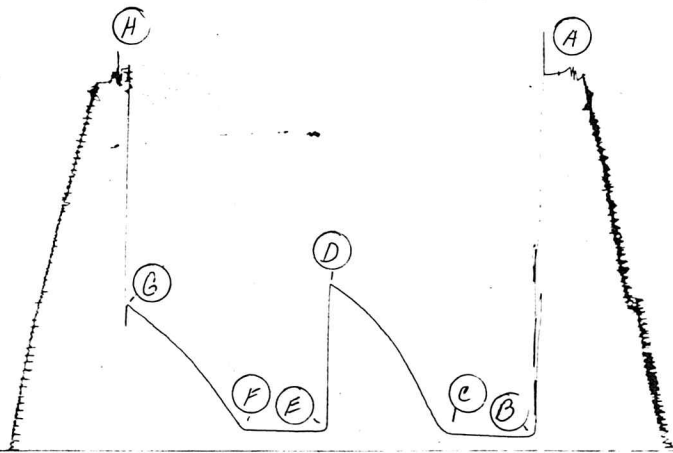
Date _____ Test Ticket No. 1131
 Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____ Mins.
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____ Mins.
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____ Mins.
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins. _____ Mins.
F Second Final Flow Pressure _____	P.S.I.		
G Final Closed-in Pressure _____	P.S.I.		
H Final Hydrostatic Mud _____	P.S.I.		

PRESSURE BREAKDOWN

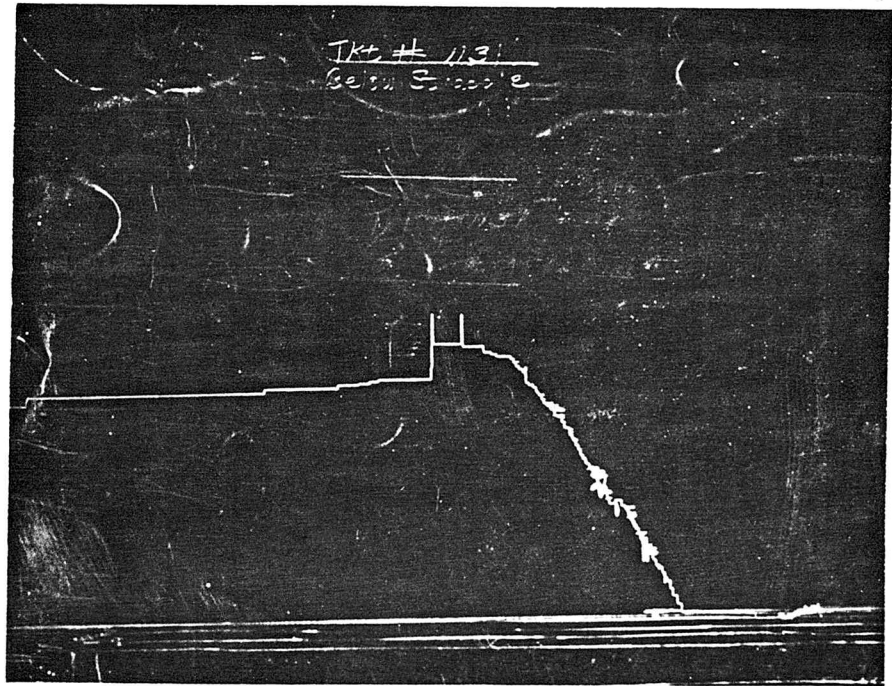
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final 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		63	<u>729</u>			63	<u>620</u>
P 2		66	<u>748</u>			66	<u>638</u>
P 3		69	<u>766</u>			69	<u>647</u>
P 4		72	<u>785</u>			72	<u>668</u>
P 5		75	<u>805</u>			75	<u>690</u>
P 6		78	<u>817</u>			78	<u>706</u>
P 7		81	<u>829</u>			81	<u>718</u>
P 8		84	<u>841</u>			84	<u>732</u>
P 9		87	<u>853</u>			87	<u>746</u>
P10		90	<u>865</u>			90	<u>760</u>
P11		<u>93</u>				<u>93</u>	
P12		<u>96</u>				<u>96</u>	
P13		<u>99</u>				<u>99</u>	
P14		<u>102</u>				<u>102</u>	
P15		<u>105</u>				<u>105</u>	
P16		<u>108</u>				<u>108</u>	
P17		<u>111</u>				<u>111</u>	
P18		<u>114</u>				<u>114</u>	
P19		<u>117</u>				<u>117</u>	
P20		<u>120</u>				<u>120</u>	

TK4 # 1131
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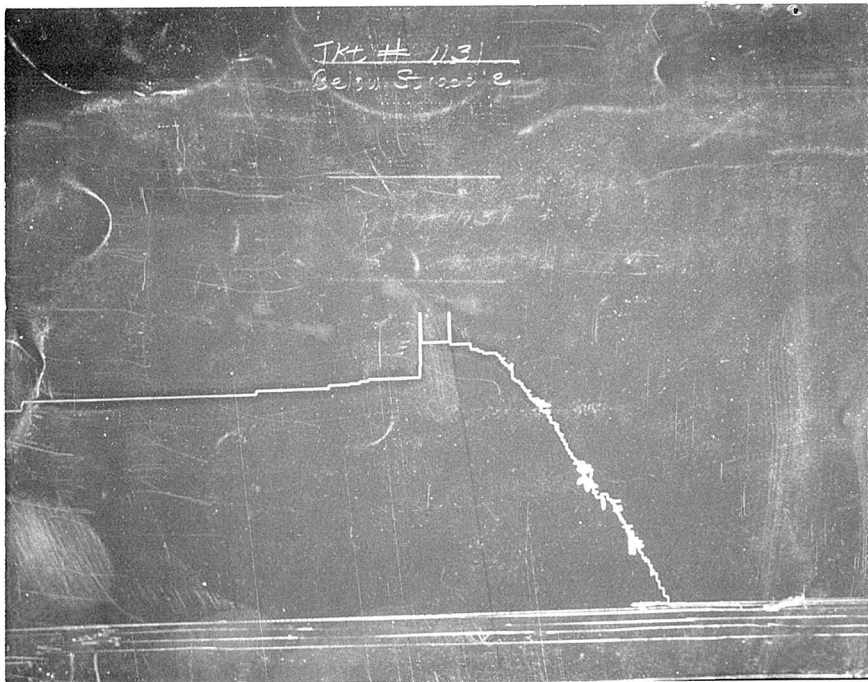
TKT # 1131

Beau S. Ross



TKT # 1131

Below Surface



Company Imperial Oil Company Lease & Well No. Jenkins #1-11
Elevation 2063 Kelly Bushing Formation Cherokee Sand Effective Pay -- Ft. Ticket No. 1132
Date 2/2/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative W. K. Hager

Formation Test No. 4 Interval Tested from 4458' ft. to 4496' ft. Total Depth 4496' ft.
Packer Depth 4453' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4458' ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4478 ft. Recorder Number 969 Cap. 4200
Bottom Recorder Depth (Outside) 4481 ft. Recorder Number 2603 Cap. 4400
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Red Tiger #6 Drill Collar Length - I. D. - in.
Mud Type drispac Viscosity 43 Weight Pipe Length 1140 I. D. 2 1/4 in.
Weight 9.2 Water Loss 10.2 cc. Drill Pipe Length - I. D. 3.8 in.
Chlorides 22,000 P.P.M. Test Tool Length 66' in. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 407 Anchor Length 38' ft. Size 5 1/2 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 FH in.

Blow: Weak slowly increasing to fair blow on initial flow period. Strong blow throughout final flow period.

Recovered 885 ft. of gas in pipe
Recovered 15 ft. of mud
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:15 A.M. P.M. Time Started Off Bottom 9:15 A.M. P.M. Maximum Temperature 128

Initial Hydrostatic Pressure (A) 2225 P.S.I.
Initial Flow Period Minutes 60 (B) 51 P.S.I. to (C) 45 P.S.I.
Initial Closed In Period Minutes 60 (D) 619 P.S.I.
Final Flow Period Minutes 60 (E) 61 P.S.I. to (F) 53 P.S.I.
Final Closed In Period Minutes 60 (G) 1181 P.S.I.
Final Hydrostatic Pressure (H) 2209 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/2/79 Test Ticket No. 1132
 Recorder No. 969 Capacity 4200 Location 4478 Ft.
 Clock No. -- Elevation 2063 Kelly Bushing Well Temperature 128 °F

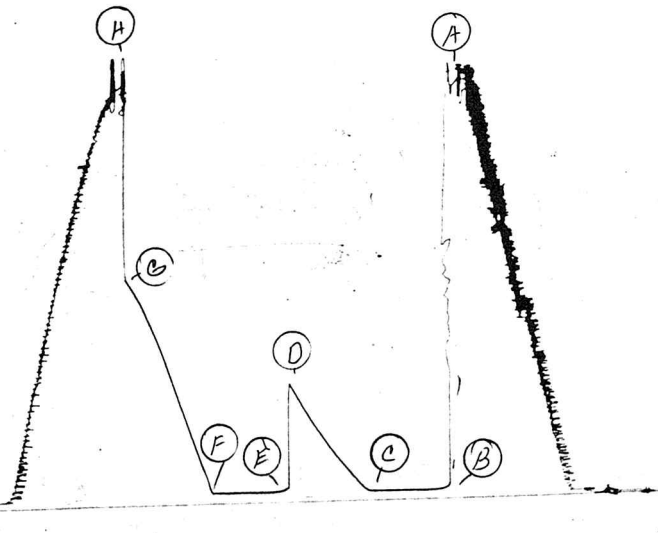
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2225 P.S.I.	Open Tool	5:15A	M
B First Initial Flow Pressure	51 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	45 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	619 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	61 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	53 P.S.I.			
G Final Closed-in Pressure	1181 P.S.I.			
H Final Hydrostatic Mud	2209 P.S.I.			

PRESSURE BREAKDOWN

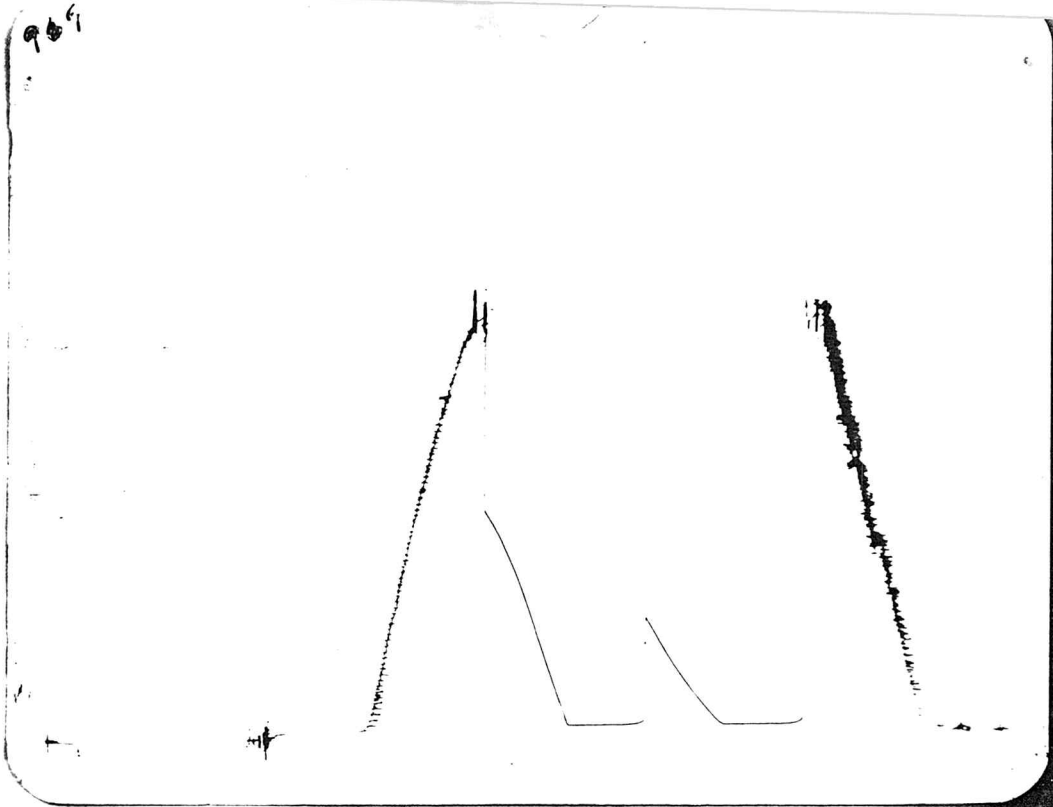
First Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</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	0	51	0	45	0	61	53
P 2	5	49	3	55	5	57	102
P 3	10	45	6	74	10	53	166
P 4	15	44	9	102	15	53	231
P 5	20	45	12	129	20	53	289
P 6	25	45	15	156	25	53	348
P 7	30	45	18	180	30	53	412
P 8	35	45	21	203	35	53	482
P 9	40	45	24	238	40	53	543
P10	45	45	27	264	45	53	611
P11	50	45	30	295	50	53	670
P12	55	45	33	326	55	53	740
P13	60	45	36	359	60	53	807
P14			39	393			865
P15			42	428			915
P16			45	463			965
P17			48	494			1019
P18			51	541			1070
P19			54	580			1103
P20			57	599			1142
			60	619			1181

909

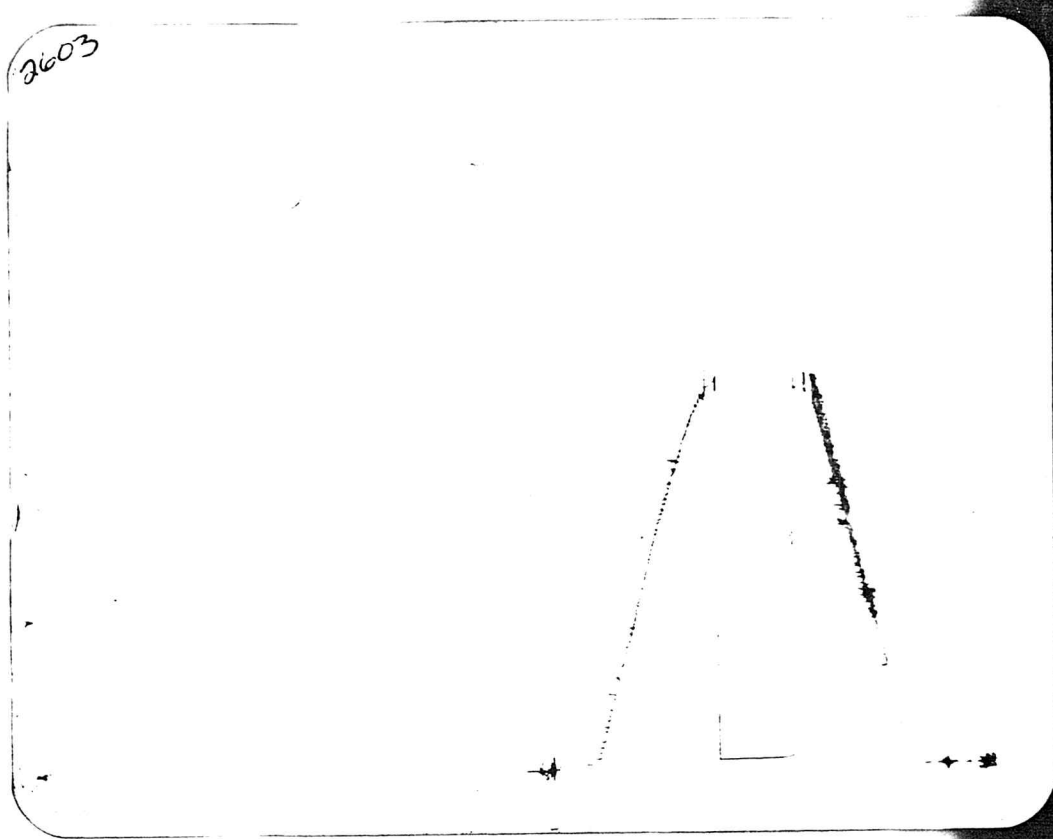
TKT # 1132
I



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2603



985

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2603

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Company Imperial Oil Company Lease & Well No. Jenkins #1-11
Elevation 2063 Kelly Bushing Mississippi Effective Pay -- Ft. Ticket No. 1133
Date 2/3/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative W. K. Hager

Formation Test No. 5 Interval Tested from 4472' ft. to 4511 ft. Total Depth 4511' ft.

Packer Depth 4467 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4472 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4494 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4497 ft. Recorder Number 2603 Cap. 4400

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

Drilling Contractor Red Tiger #6 Drill Collar Length - I. D. - in.

Mud Type drispac Viscosity 53 Weight Pipe Length 1140 I. D. 2 1/4 in.

Weight 9 .3 Water Loss 8.2 cc. Drill Pipe Length 3304 I. D. 3.8 in.

Chlorides 23,000 P.P.M. Test Tool Length 67' FE Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 407 Anchor Length 39' ft. Size 5 1/2 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 FH in.

Blow: Very weak blow; died three minutes into initial flow period; no blow on final flow period.

Recovered 60 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:15 A.M. Time Started Off Bottom 6:15 A.M. Maximum Temperature 129

Initial Hydrostatic Pressure 2242 P.S.I.

Initial Flow Period 30 Minutes (B) 65 P.S.I. to (C) 53 P.S.I.

Initial Closed In Period 60 Minutes (D) 184 P.S.I.

Final Flow Period 30 Minutes (E) 65 P.S.I. to (F) 59 P.S.I.

Final Closed In Period 60 Minutes (G) 139 P.S.I.

Final Hydrostatic Pressure 2217 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/3/79 Test Ticket No. 1133
 Recorder No. 969 Capacity 4200 Location 4494 Ft.
 Clock No. -- Elevation 2063 Kelly Bushing Well Temperature 129 °F

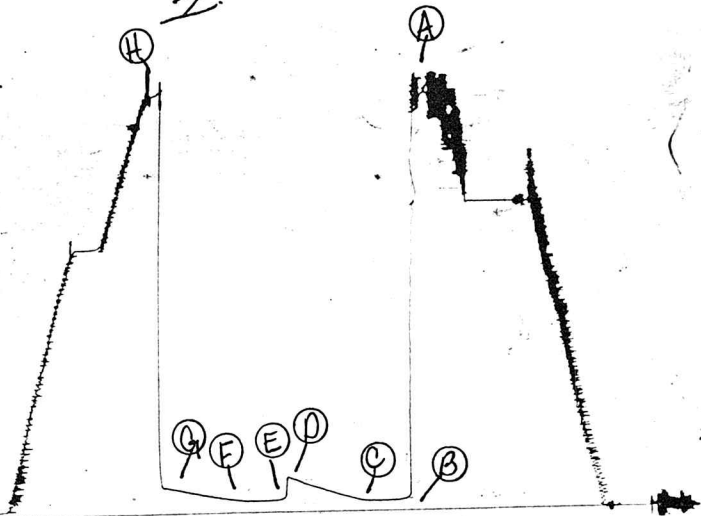
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2242</u> P.S.I.	Open Tool	<u>3:15A</u> M	
B First Initial Flow Pressure	<u>65</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>53</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>184</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>65</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>59</u> P.S.I.			
G Final Closed-in Pressure	<u>139</u> P.S.I.			
H Final Hydrostatic Mud	<u>2217</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>20</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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>65</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>59</u>
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>55</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>61</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>58</u>	<u>10</u>	<u>59</u>	<u>6</u>	<u>63</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>63</u>	<u>15</u>	<u>59</u>	<u>9</u>	<u>67</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>67</u>	<u>20</u>	<u>59</u>	<u>12</u>	<u>72</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>74</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>76</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>78</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>78</u>
P 8		<u>21</u>	<u>86</u>			<u>21</u>	<u>82</u>
P 9		<u>24</u>	<u>92</u>			<u>24</u>	<u>86</u>
P10		<u>27</u>	<u>98</u>			<u>27</u>	<u>91</u>
P11		<u>30</u>	<u>106</u>			<u>30</u>	<u>94</u>
P12		<u>33</u>	<u>113</u>			<u>33</u>	<u>99</u>
P13		<u>36</u>	<u>121</u>			<u>36</u>	<u>103</u>
P14		<u>39</u>	<u>126</u>			<u>39</u>	<u>106</u>
P15		<u>42</u>	<u>132</u>			<u>42</u>	<u>111</u>
P16		<u>45</u>	<u>141</u>			<u>45</u>	<u>115</u>
P17		<u>48</u>	<u>149</u>			<u>48</u>	<u>121</u>
P18		<u>51</u>	<u>159</u>			<u>51</u>	<u>125</u>
P19		<u>54</u>	<u>167</u>			<u>54</u>	<u>130</u>
P20		<u>57</u>	<u>175</u>			<u>57</u>	<u>135</u>
		<u>60</u>	<u>184</u>			<u>60</u>	<u>139</u>

969

TK+ # 113.3
I.



Company Imperial Oil Company Lease & Well No. Jenkins #1-11
 Elevation 2603 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticker No. 1134
 Date 2/4/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Peter J. Stubbs Western Representative W. K. Hager
 Formation Test No. 6 Interval Tested from 4167 ft. to 4189 ft. Total Depth 4650 ft.
 Packer Depth 4167 ft. Size 6 3/4 in. Packer Depth 4194 ft. Size 6 3/4 in.
 Packer Depth 4189 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set 4232
 Top Recorder Depth (Inside) 4179 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 4182 ft. Recorder Number 2603 Cap. 4400
 Below Straddle Recorder Depth 4647 ft. Recorder Number 1563 Cap. 4200
 Drilling Contractor Red Tiger #6 Drill Collar Length - I. D. - in.
 Mud Type drispac Viscosity 50 Weight Pipe Length 1140 I. D. 2 1/4 in.
 Weight 9.2 Water Loss 11.6 cc. Drill Pipe Length 2048 I. D. 3.8 in.
 Chlorides 27,000 P.P.M. Test Tool Length 22' in. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 407 Anchor Length 22' ft. Size 5 1/2 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 FH in.

Blow: _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____ MISRUN

Recovered _____ ft. of _____

Recovered _____ ft. of _____

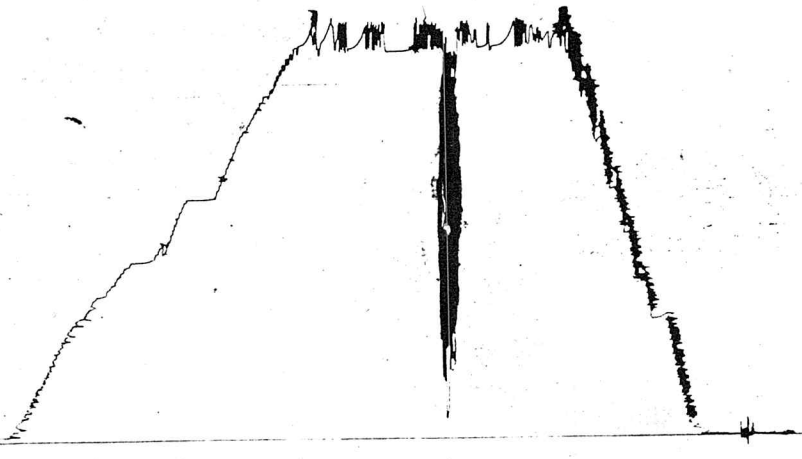
Recovered _____ ft. of _____

Remarks: Could not get hook to set/and had top packer seat failure the one time hook did set.

Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure (A) _____ P.S.I.
 Initial Flow Period Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period Minutes (D) _____ P.S.I.
 Final Flow Period Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period Minutes (G) _____ P.S.I.
 Final Hydrostatic Pressure (H) _____ P.S.I.

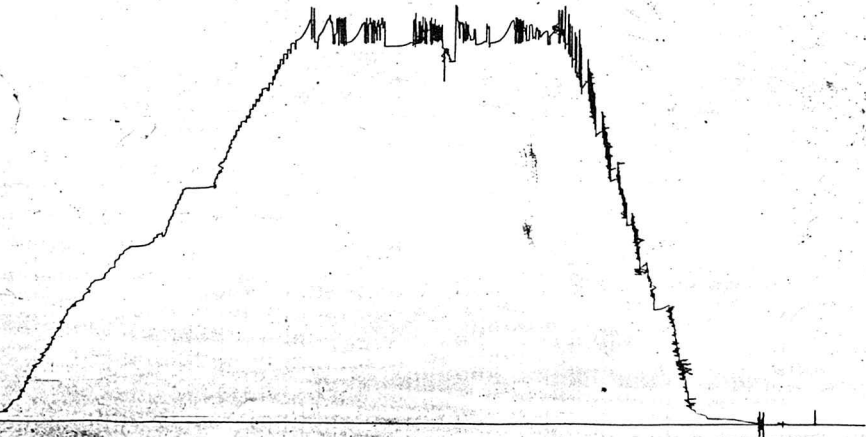
TKt# 1134

I:



1563

Tkt # 1134
Below straddle



Company Imperial Oil Company Lease & Well No. Jenkins #1-11
Elevation 2603 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 1135
Date 2/5/79 Sec. 11 Twp. 28S Range 15W County Pratt State Kansas
Test Approved by Peter J. Stubbs Western Representative Vernon Wondra

Formation Test No. 7 Interval Tested from 4172' ft. to 4192' ft. Total Depth 4650' ft.

Packer Depth 4167 ft. Size 6 3/4 in. Packer Depth 4192 ft. Size 6 3/4 in.

Packer Depth 4172 ft. Size 6 3/4 in. Packer Depth 4197 ft. Size 6 3/4 in.

Depth of Selective Zone Set 4268

Top Recorder Depth (Inside) 4182 ft. Recorder Number 969 Cap. 4200

Bottom Recorder Depth (Outside) 4185 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth 4265 ft. Recorder Number 1563 Cap. 4200

Drilling Contractor Red Tiger #6 Drill Collar Length - I. D. - in.

Mud Type drispac Viscosity 50 Weight Pipe Length 1140 I. D. 2 1/4 in.

Weight 9.2 Water Loss 11.6 cc. Drill Pipe Length 3081 I. D. 3.8 in.

Chlorides 27,000 P.P.M. Test Tool Length 27' in. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 407 Anchor Length 20' ft. Size 5 1/2 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 FH in.

Blow: Very weak blow; died 10 minutes into initial flow period; very weak blow on final flow period.

Recovered 140 ft. of mud

Recovered 60 ft. of slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:58 A.M. Time Started Off Bottom 11:58 P.M. Maximum Temperature Therm. Broken

Initial Hydrostatic Pressure 2118 P.S.I. (A)

Initial Flow Period 60 Minutes (B) 88 P.S.I. to (C) 92 P.S.I.

Initial Closed In Period 90 Minutes (D) 1459 P.S.I.

Final Flow Period 60 Minutes (E) 121 P.S.I. to (F) 152 P.S.I.

Final Closed In Period 90 Minutes (G) 1554 P.S.I.

Final Hydrostatic Pressure 2091 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 2/5/79 Recorder No. 969 Capacity 4200 Test Ticket No. 1135
 Clock No. -- Elevation 2603 Location 4182 Ft. 1
 Well Temperature Broken therm.

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2118 P.S.I.	Open Tool	6:58A	M
B First Initial Flow Pressure	88 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	92 P.S.I.	Initial Closed-in Pressure	90 Mins.	105 Mins.
D Initial Closed-in Pressure	1459 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	121 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	152 P.S.I.			
G Final Closed-in Pressure	1554 P.S.I.			
H Final Hydrostatic Mud	2091 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>12</u> Inc.		Breakdown: <u>35</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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	88	0	92	0	121	0	152
P 2 5	86	3	94	5	119	3	211
P 3 10	84	6	98	10	145	6	414
P 4 15	84	9	108	15	152	9	916
P 5 20	84	12	119	20	147	12	1284
P 6 25	84	15	133	25	145	15	1360
P 7 30	84	18	147	30	145	18	1403
P 8 35	86	21	170	35	147	21	1428
P 9 40	86	24	197	40	149	24	1449
P10 45	88	27	231	45	152	27	1461
P11 50	88	30	279	50	152	30	1471
P12 55	90	33	336	55	152	33	1477
P13 60	92	36	404	60	152	36	1485
P14		39	473			39	1492
P15		42	563			42	1499
P16		45	664			45	1504
P17		48	751			48	1509
P18		51	838			51	1514
P19		54	925			54	1517
P20		57	1011			57	1522
		60	1098			60	1527

WTC - 4

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WESTERN TESTING CO., INC.

Pressure Data

Date 2/5/79 Recorder No. 969 Capacity 4200 Test Ticket No. 1135
 Clock No. -- Elevation 2603 Location 4182 Ft. --
 Well Temperature Broken therm.

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2118	P.S.I.	6:58A	M
B First Initial Flow Pressure	88	P.S.I.	60	Mins. 60
C First Final Flow Pressure	92	P.S.I.	90	Mins. 105
D Initial Closed-in Pressure	1459	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	121	P.S.I.	90	Mins. 90
F Second Final Flow Pressure	152	P.S.I.		
G Final Closed-in Pressure	1554	P.S.I.		
H Final Hydrostatic Mud	2091	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 35 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

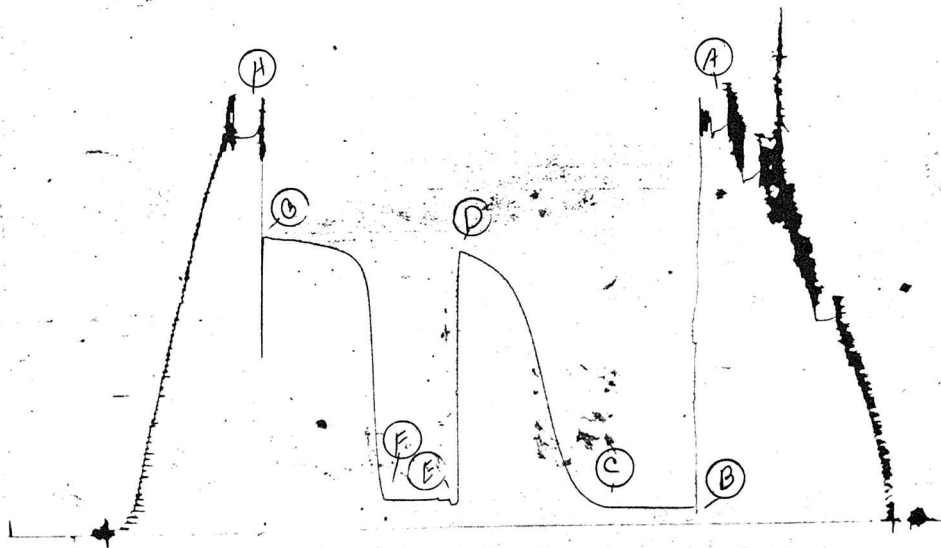
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 30 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63	1140			63	1530
P 2		66	1182			66	1532
P 3		69	1220			69	1535
P 4		72	1264			72	1537
P 5		75	1308			75	1540
P 6		78	1331			78	1542
P 7		81	1352			81	1544
P 8		84	1366			84	1548
P 9		87	1383			87	1552
P10		90	1397			90	1554
P11		93	1413				
P12		96	1424				
P13		99	1434				
P14		102	1444				
P15		105	1459				
P16							
P17							
P18							
P19							
P20							

TKt # 1135

I



563

TKt# 1135
Below St. roddle

