

Company Petroleum, Inc. Lease & Well No. Livingston "E" #1
 Elevation 1603 Ground Level (Est.) Formation Mississippi Effective Pay - Ft. Ticket No. 12626
 Date 9/12/81 Sec. 18 Twp. 28S Range 7W County Kingman State Kansas
 Test Approved by Curtis E. Covey Western Representative Vernon Wondra
 Formation Test No. 1 Interval Tested from 4059 ft. to 4071 ft. Total Depth 4071 ft.
 Packer Depth 4054 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4059 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4061 ft. Recorder Number 6074 Cap. 5100
 Bottom Recorder Depth (Outside) 4063 ft. Recorder Number 1562 Cap. 4450
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Gabbert-Jones Drlg. Co. Rig #8 Drill Collar Length 198 I. D. 2 1/4 in.
 Mud Type chemical-driscopac viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 18.4 cc. Drill Pipe Length 3838 D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 12 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 FH in.

Blow: Very weak blow; died in ten minutes on initial flow period. No blow on final flow period.

Recovered 75 ft. of watery mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks:

Time Set Packer(s) 9:10 ~~A.M.~~ P.M. Time Started Off Bottom 11:25 ~~A.M.~~ P.M. Maximum Temperature 129°
 Initial Hydrostatic Pressure 2017 P.S.I.
 Initial Flow Period 15 Minutes (B) 43 P.S.I. to (C) 43 P.S.I.
 Initial Closed In Period 30 Minutes (D) 1332 P.S.I.
 Final Flow Period 35 Minutes (E) 61 P.S.I. to (F) 64 P.S.I.
 Final Closed In Period 57 Minutes (G) 1258 P.S.I.
 Final Hydrostatic Pressure 1928 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 9/12/81 Recorder No. 6074 Capacity 5100 Test Ticket No. 12626
 Clock No. - Elevation 1603 Ground Level Location 4061 Ft. 129 °F

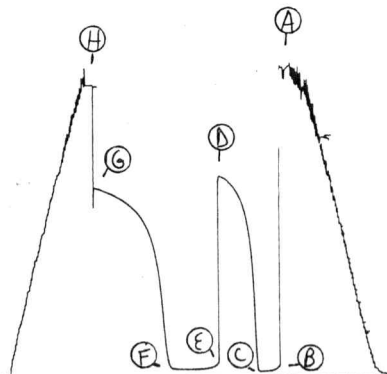
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2017	P.S.I.	9:10P	M
B First Initial Flow Pressure	43	P.S.I.	15	15
C First Final Flow Pressure	43	P.S.I.	30	30
D Initial Closed-in Pressure	1332	P.S.I.	30	35
E Second Initial Flow Pressure	61	P.S.I.	60	57
F Second Final Flow Pressure	64	P.S.I.		
G Final Closed-in Pressure	1258	P.S.I.		
H Final Hydrostatic Mud	1928	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>19</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	43	0	43	0	61	0	64
P 2 5	43	3	547	5	61	3	130
P 3 10	43	6	859	10	61	6	396
P 4 15	43	9	1031	15	61	9	627
P 5		12	1128	20	61	12	793
P 6		15	1194	25	62	15	903
P 7		18	1240	30	63	18	987
P 8		21	1273	35	64	21	1033
P 9		24	1301			24	1074
P10		27	1321			27	1107
P11		30	1332			30	1130
P12						33	1156
P13						36	1179
P14						39	1191
P15						42	1209
P16						45	1222
P17						48	1232
P18						51	1242
P19						54	1255
P20						57	1258

TKT # 12626

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Company Petroleum, Inc. Lease & Well No. Livingston 'E' #1
 Elevation -- Formation Mississippi Effective Pay - Ft. Ticket No. 11850
 Date 9/13/81 Sec. 18 Twp. 28S Range 7W County Kingman State Kansas
 Test Approved by Curtis E. Covey Western Representative Louis Spencer-Richard Howell
 Formation Test No. 2 Interval Tested from 4076 ft. to 4087 ft. Total Depth 4122 ft.
 Packer Depth 4081 ft. Size 6 3/4 in. Packer Depth 4087 ft. Size 6 3/4 in.
 Packer Depth 4076 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4065 ft. Recorder Number 1560 Cap. 4500
 Bottom Recorder Depth (Outside) 4079 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth 4122 ft. Recorder Number - Cap. -
 Drilling Contractor Gabbert-Jones Drlg. Rig #8 Drill Collar Length 176 I. D. 2.2 in.
 Mud Type drispac Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 18.4 cc. Drill Pipe Length 3866 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 34 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 13029 Anchor Length 11 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 3 1/2 in.

Blow: Initial flow period weak.

Recovered 208 ft. of muddy water Chlorides 76,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:15 A.M. Time Started Off Bottom 8:00 A.M. Maximum Temperature 114°
 Initial Hydrostatic Pressure 2040 P.S.I.
 Initial Flow Period 15 Minutes (B) 51 P.S.I. to (C) 111 P.S.I.
 Initial Closed In Period 30 Minutes (D) 1453 * P.S.I.
 Final Flow Period 60 Minutes (E) 69 P.S.I. to (F) 116 P.S.I.
 Final Closed In Period 60 Minutes (G) 1365 P.S.I.
 Final Hydrostatic Pressure 1972 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 9/13/81 Test Ticket No. 11850
Recorder No. 1560 Capacity 4500 Location _____ Ft.
Clock No. _____ Elevation _____ Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2040 P.S.I.	Open Tool	5:15P	M
B First Initial Flow Pressure	51 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	111 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1453 * P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	69 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	116 P.S.I.			
G Final Closed-in Pressure	1365 P.S.I.			
H Final Hydrostatic Mud	1972 P.S.I.			

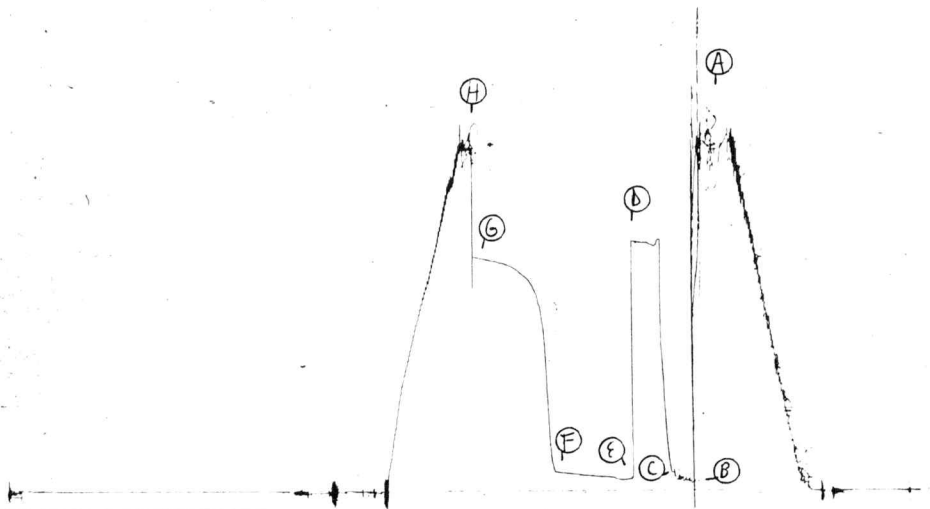
* PRESSURES QUESTIONABLE DUE TO TOOL
MOVEMENT.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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>51</u>	<u>0</u>	<u>111</u>	<u>0</u>	<u>69</u>	<u>0</u>	<u>116</u>
P 2 <u>5</u>	<u>63</u>	<u>3</u>	<u>252</u>	<u>5</u>	<u>69</u>	<u>3</u>	<u>278</u>
P 3 <u>10</u>	<u>69</u>	<u>6</u>	<u>587</u>	<u>10</u>	<u>71</u>	<u>6</u>	<u>658</u>
P 4 <u>15</u>	<u>111</u>	<u>9</u>	<u>1464 *</u>	<u>15</u>	<u>83</u>	<u>9</u>	<u>977</u>
P 5 _____	_____	<u>12</u>	<u>1446 *</u>	<u>20</u>	<u>88</u>	<u>12</u>	<u>1101</u>
P 6 _____	_____	<u>15</u>	<u>1432 *</u>	<u>25</u>	<u>90</u>	<u>15</u>	<u>1178</u>
P 7 _____	_____	<u>18</u>	<u>1444 *</u>	<u>30</u>	<u>93</u>	<u>18</u>	<u>1221</u>
P 8 _____	_____	<u>21</u>	<u>1447 *</u>	<u>35</u>	<u>95</u>	<u>21</u>	<u>1248</u>
P 9 _____	_____	<u>24</u>	<u>1447 *</u>	<u>40</u>	<u>100</u>	<u>24</u>	<u>1266</u>
P10 _____	_____	<u>27</u>	<u>1452 *</u>	<u>45</u>	<u>104</u>	<u>27</u>	<u>1288</u>
P11 _____	_____	<u>30</u>	<u>1453 *</u>	<u>50</u>	<u>108</u>	<u>30</u>	<u>1304</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>111</u>	<u>33</u>	<u>1315</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>116</u>	<u>36</u>	<u>1326</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>1331</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>1337</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1342</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>1347</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1353</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1356</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1362</u>
						<u>60</u>	<u>1365</u>

TKT # 11850 1560

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TKT # 11850

13271

Bellow straddle

