

Company Petro-Dynamics, Ltd. Lease & Well No. Curry #1
 Elevation 1281 Ground Level Formation Kanawaka Effective Pay -- Ft. Ticket No. 13211 1322
 Date 4/15/82 Sec. 32 Twp. 31S Range 3W County Sumner State Kansas
 Test Approved by Klaus Kallmai Western Representative Robert Davis

Formation Test No. 1 Interval Tested from 2487 ft. to 2537 ft. Total Depth 2537 ft.
 Packer Depth 2487 ft. Size 6 3/4 Packer Depth - ft. Size - in.
 Packer Depth 2482 ft. Size 6 3/4 Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2492 ft. Recorder Number 13268 Cap. 4225
 Bottom Recorder Depth (Outside) 2496 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reynolds Drilling Rig #1 Drill Collar Length 215 I. D. 2 1/4 in.
 Mud Type starch Viscosity 32 Weight Pipe Length - I. D. - in.
 Weight 10.0 Water Loss 48 cc. Drill Pipe Length 2245 I. D. - in.
 Chlorides 62,200 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.
 Jars: Make WIC Serial Number 405 Anchor Length 50 ft. Size 5 1/2 in.
 Did Well Flow? Gas Reversed Out - 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: Strong; gas to surface three minutes into initial flow period. See attached sheet for gas measurements.

Recovered 480 ft. of muddy water
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid tool fifteen feet to bottom.

Time Set Packer(s) 3:50 A.M. P.M. Time Started Off Bottom 5:45 A.M. P.M. Maximum Temperature 103°
 Initial Hydrostatic Pressure (A) 1278 P.S.I.
 Initial Flow Period Minutes 30 (B) 305 P.S.I. to (C) 481 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1156 P.S.I.
 Final Flow Period Minutes 5 (E) 410 P.S.I. to (F) 410 P.S.I.
 Final Closed In Period Minutes 30 (G) 1153 P.S.I.
 Final Hydrostatic Pressure (H) 1262 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

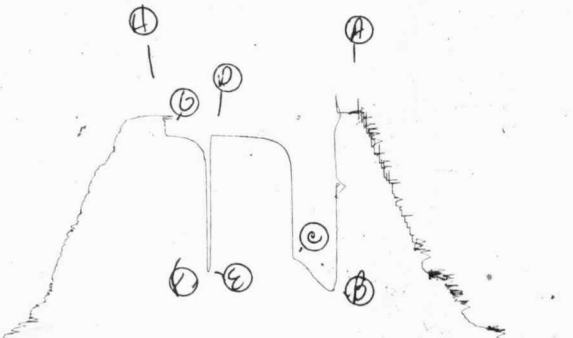
Date 4/15/82 Test Ticket No. 13211
 Recorder No. 13268 Capacity 4225 Location 2492 Ft.
 Clock No. --- Elevation 1281 Ground Level Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1278</u>	P.S.I.	<u>3:50A</u>	<u>M</u>
B. First Initial Flow Pressure	<u>305</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C. First Final Flow Pressure	<u>481</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>1156</u>	P.S.I.	<u>5</u>	<u>5</u> Mins.
E. Second Initial Flow Pressure	<u>410</u>	P.S.I.	<u>20</u>	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>410</u>	P.S.I.		
G. Final Closed-in Pressure	<u>1153</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1262</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>1</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>305</u>	<u>0</u>	<u>481</u>	<u>0</u>	<u>410</u>	<u>0</u>	<u>410</u>
P 2 <u>5</u>	<u>305</u>	<u>3</u>	<u>960</u>	<u>5</u>	<u>410</u>	<u>3</u>	<u>1077</u>
P 3 <u>10</u>	<u>333</u>	<u>6</u>	<u>1065</u>			<u>6</u>	<u>1103</u>
P 4 <u>15</u>	<u>368</u>	<u>9</u>	<u>1095</u>			<u>9</u>	<u>1124</u>
P 5 <u>20</u>	<u>415</u>	<u>12</u>	<u>1113</u>			<u>12</u>	<u>1134</u>
P 6 <u>25</u>	<u>455</u>	<u>15</u>	<u>1123</u>			<u>15</u>	<u>1141</u>
P 7 <u>30</u>	<u>481</u>	<u>18</u>	<u>1131</u>			<u>18</u>	<u>1146</u>
P 8		<u>21</u>	<u>1137</u>			<u>21</u>	<u>1148</u>
P 9		<u>24</u>	<u>1141</u>			<u>24</u>	<u>1151</u>
P10		<u>27</u>	<u>1142</u>			<u>27</u>	<u>1152</u>
P11		<u>30</u>	<u>1146</u>			<u>30</u>	<u>1153</u>
P12		<u>33</u>	<u>1148</u>				
P13		<u>36</u>	<u>1149</u>				
P14		<u>39</u>	<u>1150</u>				
P15		<u>42</u>	<u>1151</u>				
P16		<u>45</u>	<u>1152</u>				
P17		<u>48</u>	<u>1153</u>				
P18		<u>51</u>	<u>1154</u>				
P19		<u>54</u>	<u>1155</u>				
P20		<u>57</u>	<u>1156</u>				
		<u>60</u>	<u>1156</u>				

Site # 13211
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Company Petro-Dynamics, Ltd. Lease & Well No. Curry #1
 Elevation 1281 Ground Level Formation Stalneker Effective Pay - Ft. Ticket No. 13212
 Date 4/18/82 Sec. 32 Twp. 31S Range 3W County Sumner State Kansas
 Test Approved by R. Flaker Western Representative Robert Davis

Formation Test No. 2 Interval Tested from 2970 ft. to 3006 ft. Total Depth 3006 ft.
 Packer Depth 2990 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2965 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2975 ft. Recorder Number 13268 Cap. 4225
 Bottom Recorder Depth (Outside) 2979 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Reynolds Drlg. Rig #1 Drill Collar Length 215 I. D. 2 1/4 in.

Mud Type starch Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 12.0 cc. Drill Pipe Length 2729 I. D. 3.8 in.

Chlorides 56,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.

Jars: Make WIC Serial Number 405 Anchor Length 36 ft. Size 5 1/2 in.

Did Well Flow? Yes Reversed Out - 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: Strong blow. Gas to surface in ten minutes. See attached sheet for gas measurements.

Recovered 1180 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Slid tool fifteen feet.

Time Set Packer(s) 10:35 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:05 ~~P.M.~~ ^{A.M.} Maximum Temperature 109°

Initial Hydrostatic Pressure (A) 1540 P.S.I.
 Initial Flow Period Minutes 30 (B) 359 P.S.I. to (C) 570 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1165 P.S.I.
 Final Flow Period Minutes 20 (E) 547 P.S.I. to (F) 656 P.S.I.
 Final Closed In Period Minutes 48 (G) 1156 P.S.I.
 Final Hydrostatic Pressure (H) 1519 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 4/18/82 Test Ticket No. 13212
 Recorder No. 13268 Capacity 4225 Location 2975 Ft.
 Clock No. -- Elevation 2181 Ground Level Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1540 P.S.I.	Open Tool	10:35A	M
B First Initial Flow Pressure	359 P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	570 P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1165 P.S.I.	Second Flow Pressure	20	Mins. 20 Mins.
E Second Initial Flow Pressure	547 P.S.I.	Final Closed-in Pressure	40	Mins. 48 Mins.
F Second Final Flow Pressure	656 P.S.I.			
G Final Closed-in Pressure	1156 P.S.I.			
H Final Hydrostatic Mud	1519 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>4</u> Inc.		Breakdown: <u>16</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	359	0	570	0	547	0	656
P 2 5	359	3	1019	5	577	3	1015
P 3 10	389	6	1061	10	602	6	1057
P 4 15	438	9	1087	15	640	9	1080
P 5 20	494	12	1101	20	656	12	1097
P 6 25	540	15	1114			15	1110
P 7 30	570	18	1124			18	1118
P 8		21	1133			21	1126
P 9		24	1138			24	1132
P10		27	1142			27	1138
P11		30	1148			30	1142
P12		33	1150			33	1146
P13		36	1152			36	1149
P14		39	1154			39	1152
P15		42	1156			42	1155
P16		45	1158			45	1156
P17		48	1160			48	1156
P18		51	1162				
P19		54	1163				
P20		57	1164				
		60	1165				

Site # 13212

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