

Company Petro-Dynamics, Ltd. Lease & Well No. Spade #1
Elevation 2146 Kelly Bushing Formation Indian Cave Effective Pay - Ft. Ticket No. 13703
Date 10/11/81 Sec. 27 Twp. 29S Range 10W County Kingman State Kansas
Test Approved by Raymond E. Palmer Western Representative Karl L. West, Jr.
Formation Test No. 1 Interval Tested from 2560 ft. to 2583 ft. Total Depth 2583 ft.
Packer Depth 2555 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2560 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2566 ft. Recorder Number 13267 Cap. 4050
Bottom Recorder Depth (Outside) 2569 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Baradco Drlg. Rig #2 Drill Collar Length 217 I. D. 2.26 in.
Mud Type chemical - starch Viscosity 38 Weight Pipe Length - I. D. - in.
Weight 9.5 Water Loss 8.2 cc. Drill Pipe Length 2366 I. D. 3.8 in.
Chlorides 43,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 409 Anchor Length 23 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: Initial flow period weak (one inch under water) to fair (four inches under water)
Final flow period fair (three inches underwater) to good (five inches under water)
Recovered 280 ft. of muddy salt water Chlorides 97,000 ppm
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Remarks: Hit bridge ten feet off bottom; slid ten feet to bottom.

Time Set Packer(s) 5:05 A.M. Time Started Off Bottom 8:50 A.M. Maximum Temperature 119°
Initial Hydrostatic Pressure 1278 P.S.I.
Initial Flow Period 30 Minutes (B) 71 * P.S.I. to (C) 147 P.S.I.
Initial Closed In Period 60 Minutes (D) 951 P.S.I.
Final Flow Period 45 Minutes (E) 158 P.S.I. to (F) 169 P.S.I.
Final Closed In Period 96 Minutes (G) 951 P.S.I.
Final Hydrostatic Pressure 1268 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 10/11/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 13703
 Location 2566 Ft. Elevation 2146 Kelly Bushing Well Temperature 119 °F
 Clock No. --

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1278 P.S.I.	Open Tool	5:05P	M
B First Initial Flow Pressure	71 * P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	147 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	951 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	158 P.S.I.	Final Closed-in Pressure	90 Mins.	96 Mins.
F Second Final Flow Pressure	169 P.S.I.			
G Final Closed-in Pressure	951 P.S.I.			
H Final Hydrostatic Mud	1268 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>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>32</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>71 *</u>	<u>0</u>	<u>147</u>	<u>0</u>	<u>158</u>	<u>0</u>	<u>169</u>
P 2 <u>5</u>	<u>154*</u>	<u>3</u>	<u>435</u>	<u>5</u>	<u>158</u>	<u>3</u>	<u>496</u>
P 3 <u>10</u>	<u>148</u>	<u>6</u>	<u>754</u>	<u>10</u>	<u>158</u>	<u>6</u>	<u>740</u>
P 4 <u>15</u>	<u>145</u>	<u>9</u>	<u>813</u>	<u>15</u>	<u>158</u>	<u>9</u>	<u>795</u>
P 5 <u>20</u>	<u>145</u>	<u>12</u>	<u>844</u>	<u>20</u>	<u>160</u>	<u>12</u>	<u>823</u>
P 6 <u>25</u>	<u>146</u>	<u>15</u>	<u>864</u>	<u>25</u>	<u>162</u>	<u>15</u>	<u>841</u>
P 7 <u>30</u>	<u>147</u>	<u>18</u>	<u>880</u>	<u>30</u>	<u>164</u>	<u>18</u>	<u>860</u>
P 8		<u>21</u>	<u>894</u>	<u>35</u>	<u>166</u>	<u>21</u>	<u>872</u>
P 9		<u>24</u>	<u>902</u>	<u>40</u>	<u>168</u>	<u>24</u>	<u>882</u>
P10		<u>27</u>	<u>911</u>	<u>45</u>	<u>169</u>	<u>27</u>	<u>890</u>
P11		<u>30</u>	<u>919</u>			<u>30</u>	<u>896</u>
P12		<u>33</u>	<u>925</u>			<u>33</u>	<u>902</u>
P13		<u>36</u>	<u>929</u>			<u>36</u>	<u>909</u>
P14		<u>39</u>	<u>933</u>			<u>39</u>	<u>914</u>
P15		<u>42</u>	<u>937</u>			<u>42</u>	<u>918</u>
P16		<u>45</u>	<u>941</u>			<u>45</u>	<u>921</u>
P17		<u>48</u>	<u>943</u>			<u>48</u>	<u>924</u>
P18		<u>51</u>	<u>945</u>			<u>51</u>	<u>928</u>
P19		<u>54</u>	<u>947</u>			<u>54</u>	<u>931</u>
P20		<u>57</u>	<u>949</u>			<u>57</u>	<u>933</u>
		<u>60</u>	<u>951</u>			<u>60</u>	<u>935</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 10/11/81 Test Ticket No. 13703
 Recorder No. 13267 Capacity 4050 Location 2566 Ft.
 Clock No. -- Elevation 2146 Kelly Bushing Well Temperature 119 °F

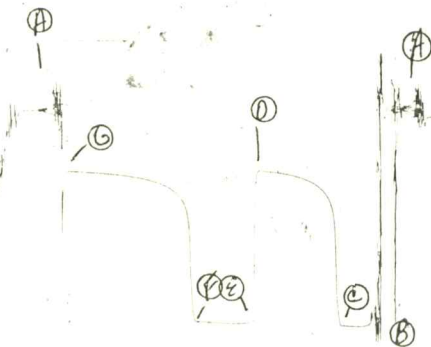
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1278	P.S.I.	5:05P	M
B First Initial Flow Pressure	71 *	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	147	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	951	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	158	P.S.I.	90	Mins. 96 Mins.
F Second Final Flow Pressure	169	P.S.I.		
G Final Closed-in Pressure	951	P.S.I.		
H Final Hydrostatic Mud	1268	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>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>32</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	937
P 2						66	939
P 3						69	941
P 4						72	943
P 5						75	944
P 6						78	945
P 7						81	946
P 8						84	947
P 9						87	948
P10						90	949
P11						93	950
P12						96	951
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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Company Petro-Dynamics, Ltd. Lease & Well No. Spade #1
Elevation 2146 Kelly Bushing Formation Topeka Effective Pay - Ft. Ticket No. 13705
Date 10/13/81 Sec. 27 Twp 29S Range 10W County Kingman State Kansas
Test Approved by Raymond E. Palmer Western Representative Karl L. West, Jr.
Formation Test No. 2 Interval Tested from 3189 ft. to 3230 ft. Total Depth 3230 ft.
Packer Depth 3184 ft. Size 6 3/4 Packer Depth - ft. Size - in.
Packer Depth 3189 ft. Size 6 3/4 Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3195 ft. Recorder Number 13267 Cap. 4050
Bottom Recorder Depth (Outside) 3198 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Beredco Drlg. Rig #2 Drill Collar Length 217 I. D. 2.26 in.
Mud Type chemical Viscosity 37 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 3026 I. D. 3.8 in.
Chlorides 36,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 409 Anchor Length 41 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: Initial flow period fair (four inches under water) held steady. Final flow period no
blow ; flushed tool; weak blow and dead in forty minutes.

Recovered 310 ft. of watery mud Chlorides 39,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Slid twelve feet to bottom.

Time Set	<u>6:15</u>	A.M. P.M.	Time Started Off Bottom	<u>10:00</u>	A.M. P.M.	Maximum Temperature	<u>120°</u>
Initial Hydrostatic Pressure			(A)	<u>1665</u>	P.S.I.		
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>134</u>	P.S.I. to (C)	<u>141</u>	P.S.I.
Initial Closed In Period	Minutes	<u>60</u>	(D)	<u>1263</u>	P.S.I.		
Final Flow Period	Minutes	<u>45</u>	(E)	<u>174</u>	P.S.I. to (F)	<u>189</u>	P.S.I.
Final Closed In Period	Minutes	<u>96</u>	(G)	<u>1258</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>1624</u>	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 10/13/81 Test Ticket No. 13705

Recorder No. 13267 Capacity 4050 Location 3195 Ft.

Clock No. - Elevation 2146 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1665 P.S.I.	Open Tool	6:15P	30
B First Initial Flow Pressure	134 P.S.I.	First Flow Pressure	30 Mins.	60 Mins.
C First Final Flow Pressure	141 P.S.I.	Initial Closed-in Pressure	60 Mins.	45 Mins.
D Initial Closed-in Pressure	1263 P.S.I.	Second Flow Pressure	45 Mins.	96 Mins.
E Second Initial Flow Pressure	174 P.S.I.	Final Closed-in Pressure	90 Mins.	
F Second Final Flow Pressure	189 P.S.I.			
G Final Closed-in Pressure	1258 P.S.I.			
H Final Hydrostatic Mud	1624 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>9</u> Inc.		Breakdown: <u>32</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>134</u>	<u>0</u>	<u>141</u>	<u>0</u>	<u>174</u>	<u>0</u>	<u>189</u>
P 2 <u>5</u>	<u>134</u>	<u>3</u>	<u>476</u>	<u>5</u>	FLUSHED TOOL	<u>3</u>	<u>451</u>
P 3 <u>10</u>	<u>134</u>	<u>6</u>	<u>1065</u>	<u>10</u>	<u>208</u>	<u>6</u>	<u>1016</u>
P 4 <u>15</u>	<u>134</u>	<u>9</u>	<u>1152</u>	<u>15</u>	<u>194</u>	<u>9</u>	<u>1118</u>
P 5 <u>20</u>	<u>137</u>	<u>12</u>	<u>1187</u>	<u>20</u>	<u>189</u>	<u>12</u>	<u>1163</u>
P 6 <u>25</u>	<u>140</u>	<u>15</u>	<u>1207</u>	<u>25</u>	<u>189</u>	<u>15</u>	<u>1183</u>
P 7 <u>30</u>	<u>141</u>	<u>18</u>	<u>1220</u>	<u>30</u>	<u>189</u>	<u>18</u>	<u>1199</u>
P 8		<u>21</u>	<u>1230</u>	<u>35</u>	<u>189</u>	<u>21</u>	<u>1211</u>
P 9		<u>24</u>	<u>1236</u>	<u>40</u>	<u>189</u>	<u>24</u>	<u>1221</u>
P10		<u>27</u>	<u>1241</u>	<u>45</u>	<u>189</u>	<u>27</u>	<u>1228</u>
P11		<u>30</u>	<u>1245</u>			<u>30</u>	<u>1233</u>
P12		<u>33</u>	<u>1250</u>			<u>33</u>	<u>1237</u>
P13		<u>36</u>	<u>1253</u>			<u>36</u>	<u>1240</u>
P14		<u>39</u>	<u>1256</u>			<u>39</u>	<u>1243</u>
P15		<u>42</u>	<u>1258</u>			<u>42</u>	<u>1246</u>
P16		<u>45</u>	<u>1260</u>			<u>45</u>	<u>1248</u>
P17		<u>48</u>	<u>1261</u>			<u>48</u>	<u>1249</u>
P18		<u>51</u>	<u>1261</u>			<u>51</u>	<u>1250</u>
P19		<u>54</u>	<u>1261</u>			<u>54</u>	<u>1251</u>
P20		<u>57</u>	<u>1262</u>			<u>57</u>	<u>1251</u>
		<u>60</u>	<u>1263</u>			<u>60</u>	<u>1252</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 10/13/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 13705
 Location 3195 Ft. Clock No. - Elevation 2146 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1665	P.S.I.	6:15P	30
B First Initial Flow Pressure	134	P.S.I.	30	60
C First Final Flow Pressure	141	P.S.I.	60	45
D Initial Closed-in Pressure	1263	P.S.I.	45	96
E Second Initial Flow Pressure	174	P.S.I.	90	
F Second Final Flow Pressure	189	P.S.I.		
G Final Closed-in Pressure	1258	P.S.I.		
H Final Hydrostatic Mud	1624	P.S.I.		

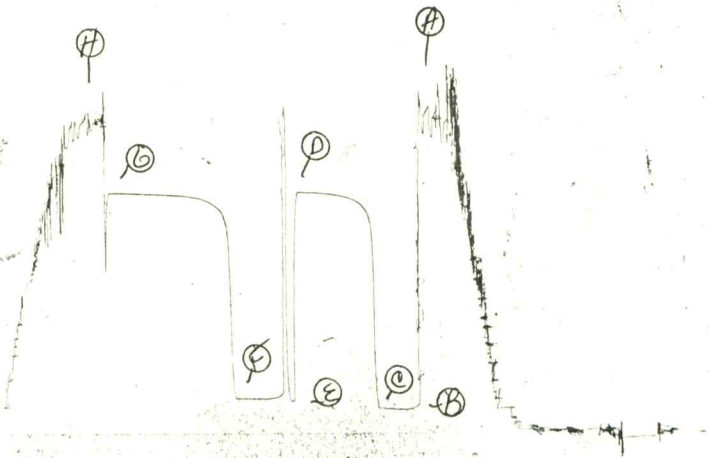
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>32</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	1253
P 2						66	1254
P 3						69	1255
P 4						72	1256
P 5						75	1257
P 6						78	1258
P 7						81	1258
P 8						84	1258
P 9						87	1258
P10						90	1258
P11						93	1258
P12						96	1258
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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18267
DJ #2
PETRO DYNAMICS
#1 SPAD3



Company Petro-Dynamics, Ltd. Lease & Well No. Spade #1
Elevation 2146 Kelly Bushing Topeka Formation Effective Pay - Ft. Ticket No. 13707
Date 10/14/81 Sec. 27 Twp. 29S Range 10W County Kingman State Kansas
Test Approved by Raymond E. Palmer Western Representative Karl L. West, Jr.

Formation Test No. 3 Interval Tested from 3226 ft. to 3260 ft. Total Depth 3260 ft.
Packer Depth 3221 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3226 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3237 ft. Recorder Number 13267 Cap. 4050
Bottom Recorder Depth (Outside) 3240 ft. Recorder Number 1051 Cap. 4250
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Beredco Drlg. Rig #2 Drill Collar Length 217 I. D. 2.26 in.
Mud Type chemical-starch Viscosity 37 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 3052 I. D. 3.8 in.
Chlorides 36,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 409 Anchor Length 34 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out Yes 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: Initial flow period strong blow; final flow period weak to strong blow in eleven minutes.

Recovered 1340 ft. of muddy salt water Chlorides 99,000 ppm
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -
Remarks: Bridges @ 2110' - 2480' ; slid fifteen feet to bottom.

Time Set Packer(s) 8:30 ~~A.M.~~ P.M. Time Started Off Bottom 1:15 ~~A.M.~~ P.M. Maximum Temperature 120°
Initial Hydrostatic Pressure 1645 P.S.I.
Initial Flow Period 20 Minutes (B) 162 * P.S.I. to (C) 278 * P.S.I.
Initial Closed In Period 45 Minutes (D) 1203 P.S.I.
Final Flow Period 85 Minutes (E) 334 P.S.I. to (F) 598 P.S.I.
Final Closed In Period 126 Minutes (G) 1219 P.S.I.
Final Hydrostatic Pressure 1645 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 10/14/81 Recorder No. 13267 Capacity 4050 Test Ticket No. 13707
 Location 2146 Kelly Bushing Well Temperature 120 °F
 Clock No. -- Elevation --

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1645 P.S.I.	8:30A	M
B First Initial Flow Pressure	162 * P.S.I.	30 Mins.	20 Mins.
C First Final Flow Pressure	278 * P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1203 P.S.I.	90 Mins.	85 Mins.
E Second Initial Flow Pressure	334 P.S.I.	120 Mins.	126 Mins.
F Second Final Flow Pressure	598 P.S.I.		
G Final Closed-in Pressure	1219 P.S.I.		
H Final Hydrostatic Mud	1645 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>4</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>17</u> Inc.		Breakdown: <u>42</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>162*</u>	<u>0</u>	<u>278 *</u>	<u>0</u>	<u>334</u>	<u>0</u>	<u>598</u>
P 2 <u>5</u>	<u>218*</u>	<u>3</u>	<u>988</u>	<u>5</u>	<u>334</u>	<u>3</u>	<u>890</u>
P 3 <u>10</u>	<u>221*</u>	<u>6</u>	<u>1049</u>	<u>10</u>	<u>350</u>	<u>6</u>	<u>1000</u>
P 4 <u>15</u>	<u>289*</u>	<u>9</u>	<u>1079</u>	<u>15</u>	<u>366</u>	<u>9</u>	<u>1041</u>
P 5 <u>20</u>	<u>278*</u>	<u>12</u>	<u>1104</u>	<u>20</u>	<u>385</u>	<u>12</u>	<u>1063</u>
P 6		<u>15</u>	<u>1121</u>	<u>25</u>	<u>403</u>	<u>15</u>	<u>1085</u>
P 7		<u>18</u>	<u>1140</u>	<u>30</u>	<u>419</u>	<u>18</u>	<u>1098</u>
P 8		<u>21</u>	<u>1152</u>	<u>35</u>	<u>439</u>	<u>21</u>	<u>1111</u>
P 9		<u>24</u>	<u>1164</u>	<u>40</u>	<u>455</u>	<u>24</u>	<u>1124</u>
P10		<u>27</u>	<u>1174</u>	<u>45</u>	<u>472</u>	<u>27</u>	<u>1136</u>
P11		<u>30</u>	<u>1182</u>	<u>50</u>	<u>494</u>	<u>30</u>	<u>1145</u>
P12		<u>33</u>	<u>1190</u>	<u>55</u>	<u>512</u>	<u>33</u>	<u>1153</u>
P13		<u>36</u>	<u>1195</u>	<u>60</u>	<u>533</u>	<u>36</u>	<u>1159</u>
P14		<u>39</u>	<u>1199</u>	<u>65</u>	<u>545</u>	<u>39</u>	<u>1164</u>
P15		<u>42</u>	<u>1201</u>	<u>70</u>	<u>559</u>	<u>42</u>	<u>1167</u>
P16		<u>45</u>	<u>1203</u>	<u>75</u>	<u>567</u>	<u>45</u>	<u>1172</u>
P17				<u>80</u>	<u>581</u>	<u>48</u>	<u>1175</u>
P18				<u>85</u>	<u>598</u>	<u>51</u>	<u>1177</u>
P19						<u>54</u>	<u>1181</u>
P20						<u>57</u>	<u>1185</u>
						<u>60</u>	<u>1189</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 10/14/81 Test Ticket No. 13707
 Recorder No. 13267 Capacity 4050 Location 3237 Ft.
 Clock No. -- Elevation 2146 Kelly Bushing Well Temperature 120 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1645 P.S.I.	8:30A	M
B First Initial Flow Pressure	162 * P.S.I.	30 Mins.	20 Mins.
C First Final Flow Pressure	278 * P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1203 P.S.I.	90 Mins.	85 Mins.
E Second Initial Flow Pressure	334 P.S.I.	120 Mins.	126 Mins.
F Second Final Flow Pressure	598 P.S.I.		
G Final Closed-in Pressure	1219 P.S.I.		
H Final Hydrostatic Mud	1645 P.S.I.		

* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</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>42</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						63	1195
P 2						66	1197
P 3						69	1199
P 4						72	1200
P 5						75	1201
P 6						78	1202
P 7						81	1203
P 8						84	1204
P 9						87	1205
P10						90	1206
P11						93	1207
P12						96	1208
P13						99	1209
P14						102	1210
P15						105	1211
P16						108	1212
P17						111	1213
P18						114	1214
P19						117	1215
P20						120	1217
						123	1218
						126	1219

TR # 13707

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