

Company White & Ellis Drilling, Inc. Lease & Well No. Hunt #1
 Elevation 1197 Kelly Bushing Formation Layton Effective Pay - Ft. Ticket No. 13222
 Date 5/23/82 Sec. 4 Twp. 34S Range 5E County Cowley State Kansas
 Test Approved by B. J. Johnson Western Representative Robert Davis
 Formation Test No. 1 Interval Tested from 2329 ft. to 2390 ft. Total Depth 2390 ft.
 Packer Depth 2329 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2324 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2334 ft. Recorder Number 13268 Cap 4225
 Bottom Recorder Depth (Outside) 2338 ft. Recorder Number 11019 Cap 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -
 Drilling Contractor White & Ellis Drlg. Rig #3 Drill Collar Length 186 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 9.6 cc. Drill Pipe Length 2123 I. D. 3.8 in.
 Chlorides 1,700 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 61 ft. Size 5 1/2 in.
 Did Well Flow? No 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: Fair blow throughout test.

Recovered 690 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 9:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 12:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 103°
 Initial Hydrostatic Pressure (A) 1223 P.S.I.
 Initial Flow Period Minutes 30 (B) 113 P.S.I. to (C) 197 P.S.I.
 Initial Closed In Period Minutes 33 (D) 835 P.S.I.
 Final Flow Period Minutes 60 (E) 238 P.S.I. to (F) 345 P.S.I.
 Final Closed In Period Minutes 60 (G) 842 P.S.I.
 Final Hydrostatic Pressure (H) 1186 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/23/82 Recorder No. 13268 Capacity 4225 Test Ticket No. 13222
 Clock No. - Elevation 1197 Kelly Bushing Location 2334 Ft. -
 Well Temperature 103 °F

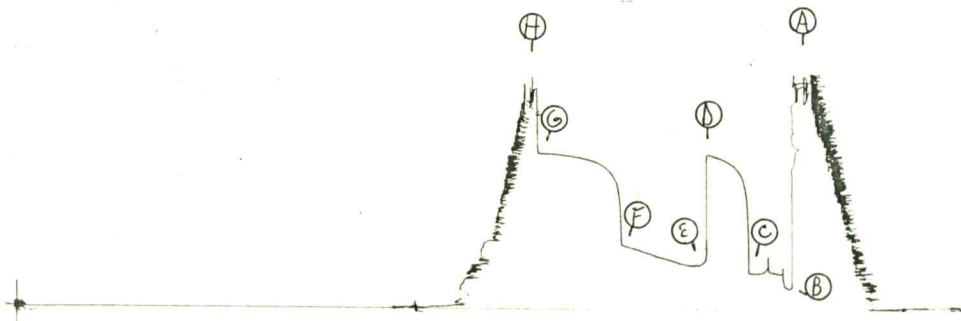
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1223</u> P.S.I.	Open Tool	<u>9:30A</u>	<u>M</u>
B First Initial Flow Pressure	<u>113</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>197</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>835</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>238</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>345</u> P.S.I.			
G Final Closed-in Pressure	<u>842</u> P.S.I.			
H Final Hydrostatic Mud	<u>1186</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</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 <u>0</u>	<u>113</u>	<u>0</u>	<u>197</u>	<u>0</u>	<u>238</u>	<u>0</u>	<u>345</u>
P 2 <u>5</u>	<u>125</u>	<u>3</u>	<u>566</u>	<u>5</u>	<u>238</u>	<u>3</u>	<u>677</u>
P 3 <u>10</u>	<u>193</u>	<u>6</u>	<u>691</u>	<u>10</u>	<u>238</u>	<u>6</u>	<u>723</u>
P 4 <u>15</u>	<u>201</u>	<u>9</u>	<u>740</u>	<u>15</u>	<u>243</u>	<u>9</u>	<u>749</u>
P 5 <u>20</u>	<u>208</u>	<u>12</u>	<u>767</u>	<u>20</u>	<u>252</u>	<u>12</u>	<u>769</u>
P 6 <u>25</u>	<u>195</u>	<u>15</u>	<u>785</u>	<u>25</u>	<u>264</u>	<u>15</u>	<u>784</u>
P 7 <u>30</u>	<u>197</u>	<u>18</u>	<u>799</u>	<u>30</u>	<u>274</u>	<u>18</u>	<u>796</u>
P 8		<u>21</u>	<u>810</u>	<u>35</u>	<u>283</u>	<u>21</u>	<u>803</u>
P 9		<u>24</u>	<u>819</u>	<u>40</u>	<u>296</u>	<u>24</u>	<u>809</u>
P10		<u>27</u>	<u>826</u>	<u>45</u>	<u>308</u>	<u>27</u>	<u>814</u>
P11		<u>30</u>	<u>833</u>	<u>50</u>	<u>322</u>	<u>30</u>	<u>819</u>
P12		<u>33</u>	<u>835</u>	<u>55</u>	<u>330</u>	<u>33</u>	<u>822</u>
P13				<u>60</u>	<u>345</u>	<u>36</u>	<u>825</u>
P14						<u>39</u>	<u>828</u>
P15						<u>42</u>	<u>832</u>
P16						<u>45</u>	<u>835</u>
P17						<u>48</u>	<u>837</u>
P18						<u>51</u>	<u>839</u>
P19						<u>54</u>	<u>840</u>
P20						<u>57</u>	<u>841</u>
						<u>60</u>	<u>842</u>

TKT # 13222

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Company White & Ellis Drilling, Inc. Lease & Well No. Hunt #1
 Elevation 1197 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 13223
 Date 5/25/82 Sec. 4 Twp. 34S Range 5E County Cowley State Kansas
 Test Approved by R. R. Ashlock Western Representative Robert Davis
 Formation Test No. 2 Interval Tested from 3123 ft. to 3137 ft. Total Depth 3137 ft.
 Packer Depth 3123 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3118 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3128 ft. Recorder Number 13268 Cap. 4225
 Bottom Recorder Depth (Outside) 3132 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Drlg. Rig #3 Drill Collar Length 186 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 2917 I. D. 3.8 in.
 Chlorides 1,900 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 14 ft. Size 5 1/2 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: Weak initial flow period; lost packer seat in final flow period.

Recovered 600 ft. of very slightly oil spotted drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:35 A.M. Time Started Off Bottom - A.M. Maximum Temperature 113°
 Initial Hydrostatic Pressure 1605 P.S.I.
 Initial Flow Period 30 Minutes (B) 42 P.S.I. to (C) 48 P.S.I.
 Initial Closed In Period 30 Minutes (D) 189 P.S.I.
 Final Flow Period -- Minutes (E) PACKER SEAT FAILURE P.S.I. to (F) -- P.S.I.
 Final Closed In Period -- Minutes (G) -- P.S.I.
 Final Hydrostatic Pressure 1605 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 5/25/82 Test Ticket No. 13223
 Recorder No. 13268 Capacity 4225 Location 3128 Ft.
 Clock No. --- Elevation 1197 KellyBushing Well Temperature 113 °F

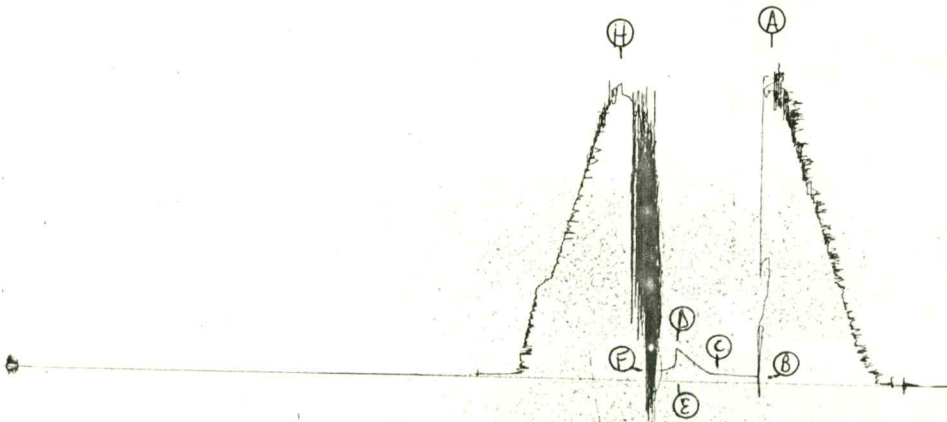
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1605 P.S.I.	4:35P	M
B First Initial Flow Pressure	42 P.S.I.	30	Mins. 30
C First Final Flow Pressure	48 P.S.I.	30	Mins. 30
D Initial Closed-in Pressure	189 P.S.I.	--	Min 5 --
E Second Initial Flow Pressure	PACKER SEAT FAILURE P.S.I.	--	Min 5 --
F Second Final Flow Pressure	-- P.S.I.		
G Final Closed-in Pressure	-- P.S.I.		
H Final Hydrostatic Mud	1605 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>--</u> Inc.		Breakdown: <u>--</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>	42	0	48	0	61		
P 2 <u>5</u>	43	3	50	5	61		
P 3 <u>10</u>	43	6	56	10	61		
P 4 <u>15</u>	43	9	66	15	61		
P 5 <u>20</u>	46	12	82	20	PACKER SEAT FAILURE		
P 6 <u>25</u>	47	15	98				
P 7 <u>30</u>	48	18	119				
P 8		21	136				
P 9		24	154				
P10		27	176				
P11		30	189				
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 13223

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Company White & Ellis Drilling, Inc. Lease & Well No. Hunt #1
 Elevation 1197 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 13224
 Date 5/25/82 Sec. 4 Twp. 34S Range 5E County Cowley State Kansas
 Test Approved by R. R. Ashlock Western Representative Robert Davis
 Formation Test No. 3 Interval Tested from 3129 ft. to 3137 ft. Total Depth 3137 ft.
 Packer Depth 3129 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3124 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3133 ft. Recorder Number 13268 Cap. 4225
 Bottom Recorder Depth (Outside) 3137 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Drlg. Rig #3 Drill Collar Length 186 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 11.2 cc. Drill Pipe Length 3023 I. D. 3.8 in.
 Chlorides 1,900 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 8 ft. Size 5 1/2 in.
 Did Well Flow? No 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: Weak initial flow period . Fair blow final flow period.

Recovered 1140 ft. of gas in pipe
 Recovered 70 ft. of oil and gas cut mud 10% oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks:

Time Set Packer(s) 9:45 ~~A.M.~~ P.M. Time Started Off Bottom 12:45 ~~A.M.~~ P.M. Maximum Temperature 113°
 Initial Hydrostatic Pressure 1624 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 62 * P.S.I. to (C) 207 * P.S.I.
 Initial Closed In Period 63 Minutes (D) 1062 P.S.I.
 Final Flow Period 30 Minutes (E) 125 * P.S.I. to (F) 131 * P.S.I.
 Final Closed In Period 60 Minutes (G) 683 P.S.I.
 Final Hydrostatic Pressure 1593 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/25/82 Test Ticket No. 13224

Recorder No. 13268 Capacity 4225 Location 3133 Ft.

Clock No. -- Elevation 1197 Kelly Bushing Well Temperature 113 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1624</u> P.S.I.	<u>9:45P</u>	<u>M</u>
B First Initial Flow Pressure	<u>62 *</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>207 *</u> P.S.I.	<u>60</u> Mins	<u>63</u> Mins.
D Initial Closed-in Pressure	<u>1062</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>125 *</u> P.S.I.	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>131 *</u> P.S.I.		
G Final Closed-in Pressure	<u>683</u> P.S.I.		
H Final Hydrostatic Mud	<u>1593</u> P.S.I.		

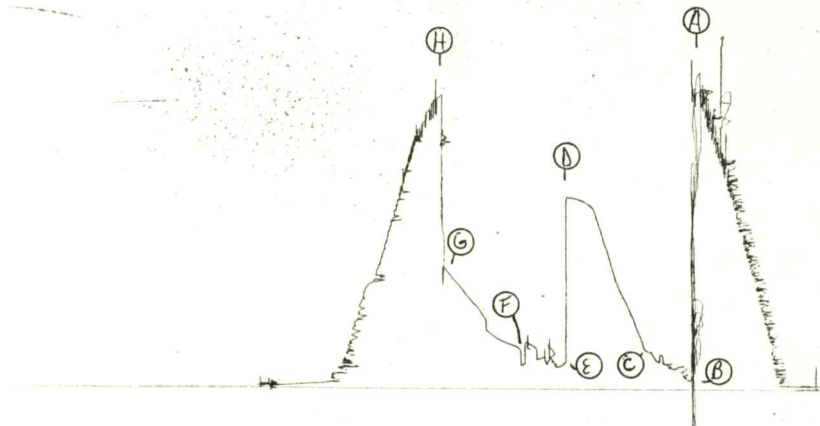
* PRESSURES QUESTIONABLE

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</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>62 *</u>	<u>0</u>	<u>207 *</u>	<u>0</u>	<u>125 *</u>	<u>0</u>	<u>131 *</u>
P 2 <u>5</u>	<u>126 *</u>	<u>3</u>	<u>218</u>	<u>5</u>	<u>125 *</u>	<u>3</u>	<u>222</u>
P 3 <u>10</u>	<u>123 *</u>	<u>6</u>	<u>270</u>	<u>10</u>	<u>220 *</u>	<u>6</u>	<u>238</u>
P 4 <u>15</u>	<u>130 *</u>	<u>9</u>	<u>325</u>	<u>15</u>	<u>166 *</u>	<u>9</u>	<u>249</u>
P 5 <u>20</u>	<u>145 *</u>	<u>12</u>	<u>383</u>	<u>20</u>	<u>167 *</u>	<u>12</u>	<u>256</u>
P 6 <u>25</u>	<u>162 *</u>	<u>15</u>	<u>432</u>	<u>25</u>	<u>249 *</u>	<u>15</u>	<u>266</u>
P 7 <u>30</u>	<u>207 *</u>	<u>18</u>	<u>485</u>	<u>30</u>	<u>131 *</u>	<u>18</u>	<u>277</u>
P 8		<u>21</u>	<u>528</u>			<u>21</u>	<u>290</u>
P 9		<u>24</u>	<u>574</u>			<u>24</u>	<u>308</u>
P10		<u>27</u>	<u>634</u>			<u>27</u>	<u>326</u>
P11		<u>30</u>	<u>715</u>			<u>30</u>	<u>410</u>
P12		<u>33</u>	<u>789</u>			<u>33</u>	<u>447</u>
P13		<u>36</u>	<u>853</u>			<u>36</u>	<u>473</u>
P14		<u>39</u>	<u>924</u>			<u>39</u>	<u>500</u>
P15		<u>42</u>	<u>990</u>			<u>42</u>	<u>524</u>
P16		<u>45</u>	<u>1018</u>			<u>45</u>	<u>556</u>
P17		<u>48</u>	<u>1033</u>			<u>48</u>	<u>584</u>
P18		<u>51</u>	<u>1045</u>			<u>51</u>	<u>609</u>
P19		<u>54</u>	<u>1053</u>			<u>54</u>	<u>637</u>
P20		<u>57</u>	<u>1057</u>			<u>57</u>	<u>662</u>
		<u>60</u>	<u>1060</u>			<u>60</u>	<u>683</u>
		<u>63</u>	<u>1062</u>				

TKT # 13224

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Company White & Ellis Drilling, Inc. Lease & Well No. Hunt #1
Elevation 1197 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 13225
Date 5/ 27 /82 Sec. 4 Twp. 34S Range 5E County Cowley State Kansas
Test Approved by R. R. Ashlock Western Representative Robert Davis
Formation Test No. 4 Interval Tested from 3160 ft. to 3184 ft. Total Depth 3184 ft.
Packer Depth 3184 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3179 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3165 ft. Recorder Number 13268 Cap. 4225
Bottom Recorder Depth (Outside) 3169 ft. Recorder Number 11019 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor White & Ellis Drlg. Rig #3 Drill Collar Length 186 I. D. 2 1/4 in.
Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.
Weight 9.6 Water Loss 10.4 cc. Drill Pipe Length 2954 I. D. 3.8 in.
Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 24 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 XH in.

Blow: Weak blow throughout test.

Recovered 150 ft. of watery drilling mud - slightly oil spotted
Recovered 60 ft. of muddy salt water Chlorides 26,000 ppm
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:30 A.M. Time Started Off Bottom 3:30 P.M. Maximum Temperature 113°
Initial Hydrostatic Pressure (A) 1629 P.S.I.
Initial Flow Period 30 Minutes (B) 71 P.S.I. to (C) 79 P.S.I.
Initial Closed In Period 27 Minutes (D) 1062 P.S.I.
Final Flow Period 60 Minutes (E) 115 P.S.I. to (F) 130 P.S.I.
Final Closed In Period 63 Minutes (G) 1096 P.S.I.
Final Hydrostatic Pressure (H) 1629 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

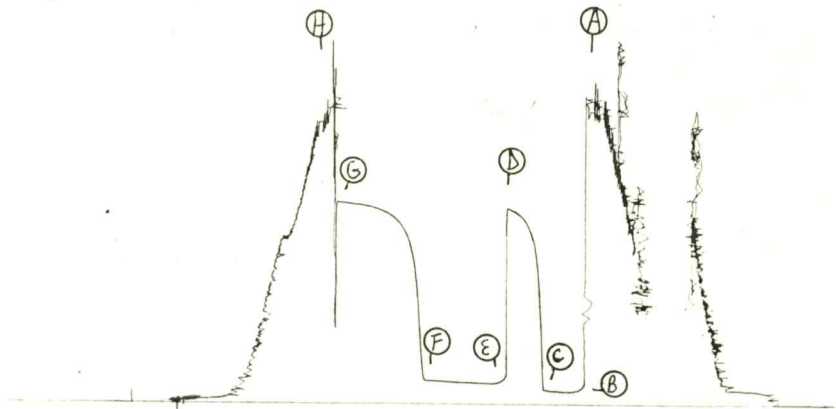
Date 5/27/82 Test Ticket No. 13225
 Recorder No. 13268 Capacity 4225 Location 3165 Ft.
 Clock No. -- Elevation 1197 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given 12:30A	Time Computed
A Initial Hydrostatic Mud	1629 P.S.I.	Open Tool	30 M	30
B First Initial Flow Pressure	71 P.S.I.	First Flow Pressure	30 Mins.	27 Mins.
C First Final Flow Pressure	79 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1062 P.S.I.	Second Flow Pressure	60 Mins.	63 Mins.
E Second Initial Flow Pressure	115 P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	130 P.S.I.			
G Final Closed-in Pressure	1096 P.S.I.			
H Final Hydrostatic Mud	1629 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>21</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>79</u>	<u>0</u>	<u>115</u>	<u>0</u>	<u>130</u>
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>579</u>	<u>5</u>	<u>115</u>	<u>3</u>	<u>402</u>
P 3 <u>10</u>	<u>71</u>	<u>6</u>	<u>796</u>	<u>10</u>	<u>115</u>	<u>6</u>	<u>685</u>
P 4 <u>15</u>	<u>71</u>	<u>9</u>	<u>902</u>	<u>15</u>	<u>115</u>	<u>9</u>	<u>819</u>
P 5 <u>20</u>	<u>73</u>	<u>12</u>	<u>966</u>	<u>20</u>	<u>117</u>	<u>12</u>	<u>894</u>
P 6 <u>25</u>	<u>76</u>	<u>15</u>	<u>1000</u>	<u>25</u>	<u>119</u>	<u>15</u>	<u>943</u>
P 7 <u>30</u>	<u>79</u>	<u>18</u>	<u>1023</u>	<u>30</u>	<u>121</u>	<u>18</u>	<u>977</u>
P 8		<u>21</u>	<u>1042</u>	<u>35</u>	<u>123</u>	<u>21</u>	<u>1002</u>
P 9		<u>24</u>	<u>1052</u>	<u>40</u>	<u>125</u>	<u>24</u>	<u>1021</u>
P10		<u>27</u>	<u>1062</u>	<u>45</u>	<u>126</u>	<u>27</u>	<u>1036</u>
P11				<u>50</u>	<u>127</u>	<u>30</u>	<u>1049</u>
P12				<u>55</u>	<u>128</u>	<u>33</u>	<u>1057</u>
P13				<u>60</u>	<u>130</u>	<u>36</u>	<u>1065</u>
P14						<u>39</u>	<u>1072</u>
P15						<u>42</u>	<u>1076</u>
P16						<u>45</u>	<u>1080</u>
P17						<u>48</u>	<u>1083</u>
P18						<u>51</u>	<u>1086</u>
P19						<u>54</u>	<u>1089</u>
P20						<u>57</u>	<u>1092</u>
						<u>60</u>	<u>1094</u>
						<u>63</u>	<u>1096</u>

TKT # 13225
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Company White & Ellis Drilling, Inc. Lease & Well No. Hunt #1
 Elevation 1197 Kelly Bushing Formation Arbuckle Effective Pay -- Ft. Ticket No. 14176
 Date 5/ 29 /82 Sec. 4 Twp. 34S Range 5E County Cowley State Kansas
 Test Approved by B. J. Johnson Western Representative Robert Davis
 Formation Test No. 5 Interval Tested from 3559 ft. to 3571 ft. Total Depth 3571 ft.
 Packer Depth 3559 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3554 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3564 ft. Recorder Number 13268 Cap. 4225
 Bottom Recorder Depth (Outside) 3569 ft. Recorder Number 11019 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor White & Ellis Drlg. Rig #3 Drill Collar Length 186 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 12.4 cc. Drill Pipe Length 2954 I. D. 3.8 in.
 Chlorides 1,800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - 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 XH in.
 Blow: Weak blow on initial flow period ; died ten minutes into final flow period.

Recovered 65 ft. of salty drilling mud with a show of free oil

Recovered - ft. of Chlorides 32,000 ppm

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 6:35 A.M. Time Started Off Bottom 9:35 A.M. Maximum Temperature 119°
 Initial Hydrostatic Pressure 1751 P.S.I.
 Initial Flow Period 30 Minutes (B) 51 P.S.I. to (C) 51 P.S.I.
 Initial Closed In Period 30 Minutes (D) 1184 P.S.I.
 Final Flow Period 60 Minutes (E) 61 P.S.I. to (F) 61 P.S.I.
 Final Closed In Period 66 Minutes (G) 1181 P.S.I.
 Final Hydrostatic Pressure 1751 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 5/29/82 Test Ticket No. 14176
Recorder No. 13268 Capacity 4225 Location 3564 Ft.
Clock No. -- Elevation 1197 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1751</u> P.S.I.	Open Tool	<u>6:35A</u> M	
B First Initial Flow Pressure	<u>51</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>51</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1184</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>61</u> P.S.I.			
G Final Closed-in Pressure	<u>1181</u> P.S.I.			
H Final Hydrostatic Mud	<u>1751</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>10</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>22</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 <u>0</u>	<u>51</u>	<u>0</u>	<u>51</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>61</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>55</u>	<u>5</u>	<u>61</u>	<u>3</u>	<u>62</u>
P 3 <u>10</u>	<u>51</u>	<u>6</u>	<u>63</u>	<u>10</u>	<u>61</u>	<u>6</u>	<u>62</u>
P 4 <u>15</u>	<u>51</u>	<u>9</u>	<u>222</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>64</u>
P 5 <u>20</u>	<u>51</u>	<u>12</u>	<u>672</u>	<u>20</u>	<u>61</u>	<u>12</u>	<u>68</u>
P 6 <u>25</u>	<u>51</u>	<u>15</u>	<u>947</u>	<u>25</u>	<u>61</u>	<u>15</u>	<u>79</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>1057</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>96</u>
P 8		<u>21</u>	<u>1112</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>128</u>
P 9		<u>24</u>	<u>1141</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>194</u>
P10		<u>27</u>	<u>1169</u>	<u>45</u>	<u>61</u>	<u>27</u>	<u>329</u>
P11		<u>30</u>	<u>1184</u>	<u>50</u>	<u>61</u>	<u>30</u>	<u>557</u>
P12				<u>55</u>	<u>61</u>	<u>33</u>	<u>770</u>
P13				<u>60</u>	<u>61</u>	<u>36</u>	<u>911</u>
P14						<u>39</u>	<u>983</u>
P15						<u>42</u>	<u>1034</u>
P16						<u>45</u>	<u>1065</u>
P17						<u>48</u>	<u>1097</u>
P18						<u>51</u>	<u>1116</u>
P19						<u>54</u>	<u>1131</u>
P20						<u>57</u>	<u>1146</u>
						<u>60</u>	<u>1156</u>
						<u>63</u>	<u>1169</u>
						<u>66</u>	<u>1181</u>

TKT # 14176

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