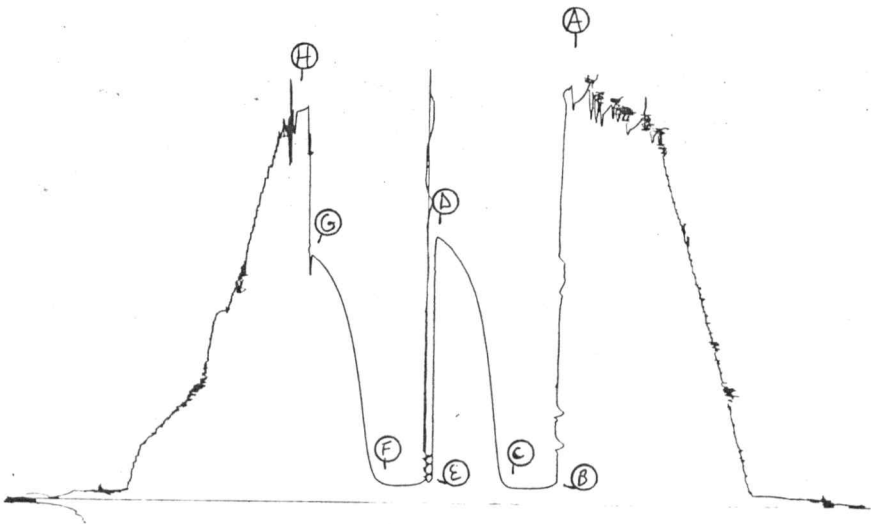


TKT # 15705

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10750

Company Leben Drilling Company Lease & Well No. #1 Swafford
 Elevation 2091 Kelly Bushing Swope Formation Effective Pay - Ft. Ticket No. 15705
 Date 7/22/82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Jerry Girks Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 4365 ft. to 4405 ft. Total Depth 4405 ft.
 Packer Depth 4360 ft. Size 6 3/4 in. Packer Depth 4365 ft. Size 6 3/4 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4367 ft. Recorder Number 10980 Cap. 4200
 Bottom Recorder Depth (Outside) 4371 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 152 I. D. 2.2 in.

Mud Type Drispac Viscosity 50 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 15.8 cc. Drill Pipe Length 4189 I. D. 2.5 in.

Chlorides 18,000 P.P.M. Test Tool Length 24 ft. Tool Size 4.5 in.

Jars: Make - Serial Number - Anchor Length 40 ft. Size 5.5 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 4.5 in.

Blow: Initial flow period weak blow slowly dying (1/4" to nothing) Died in 28 minutes.

Final flow period no blow - flushed tool - no help.

Recovered 40 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:15 ~~P.M.~~ A.M. Time Started Off Bottom 5:15 ~~P.M.~~ A.M. Maximum Temperature 125

Initial Hydrostatic Pressure 2191 P.S.I.

Initial Flow Period 30 Minutes (B) 96 P.S.I. to (C) 96 P.S.I.

Initial Closed In Period 60 Minutes (D) 1476 P.S.I.

Final Flow Period 30 Minutes (E) 123 P.S.I. to (F) 104 P.S.I.

Final Closed In Period 60 Minutes (G) 1366 P.S.I.

Final Hydrostatic Pressure 2131 P.S.I.

(H) P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/22/82 Test Ticket No. 15705
 Recorder No. 10980 Capacity 4200 Location 4367 Ft.
 Clock No. - Elevation 2091 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2191</u>	P.S.I.	<u>2:15A</u>	<u>M</u>
B First Initial Flow Pressure	<u>96</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>96</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1476</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>123</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>104</u>	P.S.I.		
G Final Closed-in Pressure	<u>1366</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2131</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

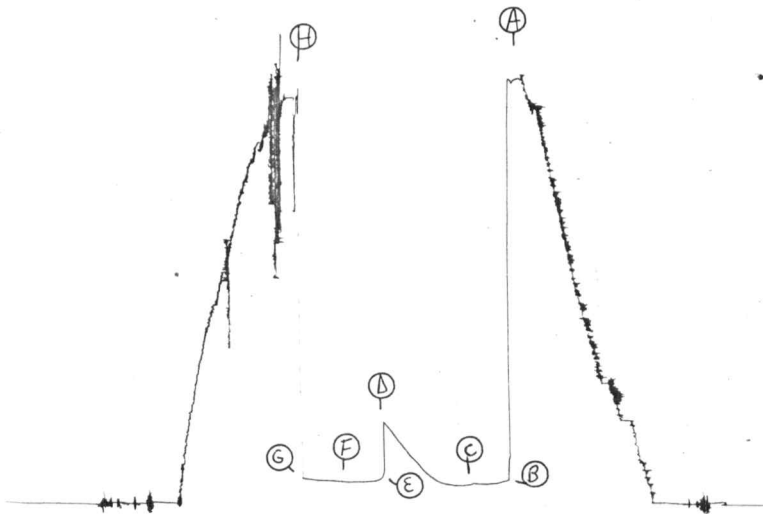
Second Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 20 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 <u>0</u>	<u>96</u>	<u>0</u>	<u>96</u>	<u>0</u>	<u>132</u>	<u>0</u>	<u>104</u>
P 2 <u>5</u>	<u>96</u>	<u>3</u>	<u>98</u>	<u>5</u>	<u>Flushed Tool</u>	<u>3</u>	<u>107</u>
P 3 <u>10</u>	<u>96</u>	<u>6</u>	<u>103</u>	<u>10</u>	<u>115</u>	<u>6</u>	<u>114</u>
P 4 <u>15</u>	<u>96</u>	<u>9</u>	<u>119</u>	<u>15</u>	<u>107</u>	<u>9</u>	<u>126</u>
P 5 <u>20</u>	<u>96</u>	<u>12</u>	<u>165</u>	<u>20</u>	<u>104</u>	<u>12</u>	<u>146</u>
P 6 <u>25</u>	<u>96</u>	<u>15</u>	<u>320</u>	<u>25</u>	<u>104</u>	<u>15</u>	<u>197</u>
P 7 <u>30</u>	<u>96</u>	<u>18</u>	<u>536</u>	<u>30</u>	<u>104</u>	<u>18</u>	<u>296</u>
P 8		<u>21</u>	<u>746</u>			<u>21</u>	<u>455</u>
P 9		<u>24</u>	<u>904</u>			<u>24</u>	<u>641</u>
P10		<u>27</u>	<u>1032</u>			<u>27</u>	<u>784</u>
P11		<u>30</u>	<u>1132</u>			<u>30</u>	<u>912</u>
P12		<u>33</u>	<u>1201</u>			<u>33</u>	<u>1004</u>
P13		<u>36</u>	<u>1263</u>			<u>36</u>	<u>1088</u>
P14		<u>39</u>	<u>1305</u>			<u>39</u>	<u>1152</u>
P15		<u>42</u>	<u>1345</u>			<u>42</u>	<u>1206</u>
P16		<u>45</u>	<u>1376</u>			<u>45</u>	<u>1248</u>
P17		<u>48</u>	<u>1408</u>			<u>48</u>	<u>1283</u>
P18		<u>51</u>	<u>1431</u>			<u>51</u>	<u>1314</u>
P19		<u>54</u>	<u>1453</u>			<u>54</u>	<u>1338</u>
P20		<u>57</u>	<u>1469</u>			<u>57</u>	<u>1356</u>
		<u>60</u>	<u>1476</u>			<u>60</u>	<u>1366</u>

TKT # 15291

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Company Leben Drilling Company Lease & Well No. #1 Swafford
 Elevation 2091 Kelly Bushing Formation Marmaton Effective Pay -- Ft. Ticket No. 15291
 Date 7/23 /82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4481 ft. to 4524 ft. Total Depth 4524 ft.
 Packer Depth 4476 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4481 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4513 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4516 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type dapac Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss - cc. Drill Pipe Length 4302 I. D. 3.8 in.
 Chlorides 19,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 43 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: Weak blow died in fifteen minutes on initial flow period. No blow on final flow period.

Recovered 20 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 7:40 ~~P.M.~~ A.M. Time Started Off Bottom 10:10 ~~P.M.~~ A.M. Maximum Temperature 123°
 Initial Hydrostatic Pressure (A) 2289 P.S.I.
 Initial Flow Period Minutes 30 (B) 120 P.S.I. to (C) 114 P.S.I.
 Initial Closed In Period Minutes 63 (D) 458 P.S.I.
 Final Flow Period Minutes 30 (E) 132 P.S.I. to (F) 135 P.S.I.
 Final Closed In Period Minutes 30 (G) 152 P.S.I.
 Final Hydrostatic Pressure (H) 2205 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/23/82 Test Ticket No. 15291
 Recorder No. 2607 Capacity 4150 Location 4513 Ft.
 Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 123 °F

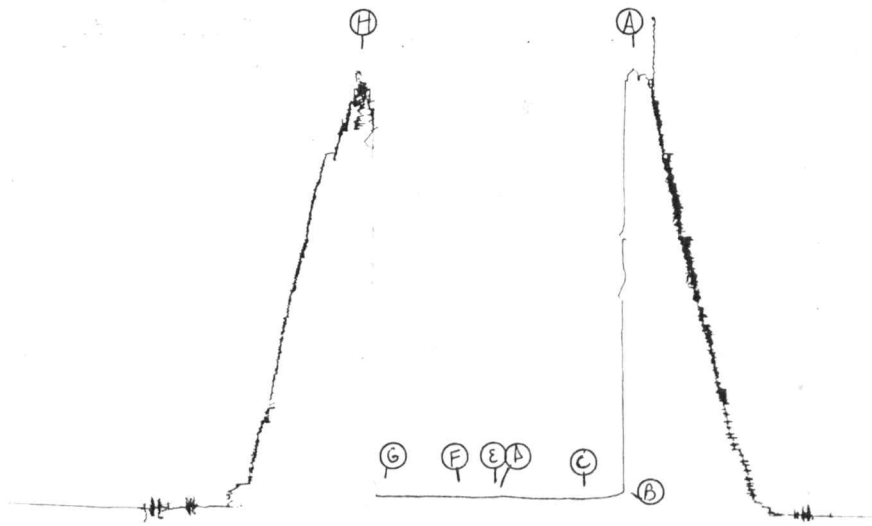
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2289	P.S.I.	7:40A	M
B First Initial Flow Pressure	120	P.S.I.	30	Mins 30
C First Final Flow Pressure	114	P.S.I.	60	Mins 63
D Initial Closed-in Pressure	458	P.S.I.	30	Mins 30
E Second Initial Flow Pressure	132	P.S.I.	30	Mins 30
F Second Final Flow Pressure	135	P.S.I.		
G Final Closed-in Pressure	152	P.S.I.		
H Final Hydrostatic Mud	2205	P.S.I.		

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>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	0	120	0	114	0	132	0	135
P 2	5	120	3	112	5	132	3	136
P 3	10	120	6	111	10	132	6	137
P 4	15	120	9	112	15	132	9	138
P 5	20	120	12	115	20	132	12	140
P 6	25	123	15	120	25	132	15	142
P 7	30	114	18	124	30	135	18	144
P 8			21	132			21	146
P 9			24	147			24	148
P10			27	162			27	150
P11			30	180			30	152
P12			33	197				
P13			36	224				
P14			39	250				
P15			42	269				
P16			45	299				
P17			48	325				
P18			51	351				
P19			54	379				
P20			57	410				
WTC - 4			60	436				
			63	458				

TRT # 15292

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67

Company Leben Drilling Company Lease & Well No. #1 Swafford
 Elevation 2091 Kelly Bushing Formation --- Effective Pay -- Ft. Ticket No. 15292
 Date 7/24 /82 Sec. 5 Twp 28S Range 15W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4531 ft. to 4567 ft. Total Depth 4567 ft.
 Packer Depth 4526 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4531 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4586 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4588 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type dapac Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 16.0 cc. Drill Pipe Length 4377 I. D. 3.8 in.
 Chlorides 18,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 36 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: Weak blow died in seven minutes on 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) 7:35 A.M. Time Started Off Bottom 10:35 P.M. Maximum Temperature 124°
 Initial Hydrostatic Pressure (A) 2367 P.S.I.
 Initial Flow Period Minutes 30 (B) 87 P.S.I. to (C) 87 P.S.I.
 Initial Closed In Period Minutes 60 (D) 97 P.S.I.
 Final Flow Period Minutes 30 (E) 89 P.S.I. to (F) 92 P.S.I.
 Final Closed In Period Minutes 60 (G) 91 P.S.I.
 Final Hydrostatic Pressure (H) 2278 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/24/82 Test Ticket No. 15292
 Recorder No. 2607 Capacity 4150 Location 4586 Ft.
 Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 124 °F

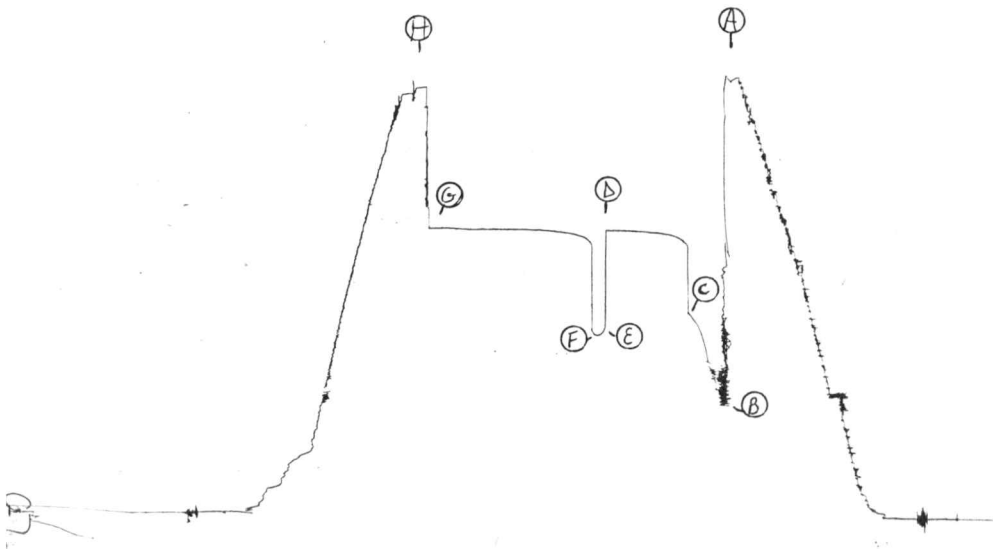
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2367</u> P.S.I.	Open Tool	<u>7:35A</u> M	
B First Initial Flow Pressure	<u>87</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>87</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>97</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>89</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>92</u> P.S.I.			
G Final Closed-in Pressure	<u>91</u> P.S.I.			
H Final Hydrostatic Mud	<u>2278</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> 87	<u>0</u> 87		<u>0</u> 89		<u>0</u> 92	
P 2	<u>5</u> 87	<u>3</u> 86		<u>5</u> 89		<u>3</u> 92	
P 3	<u>10</u> 87	<u>6</u> 85		<u>10</u> 89		<u>6</u> 92	
P 4	<u>15</u> 87	<u>9</u> 84		<u>15</u> 89		<u>9</u> 92	
P 5	<u>20</u> 87	<u>12</u> 84		<u>20</u> 89		<u>12</u> 92	
P 6	<u>25</u> 87	<u>15</u> 84		<u>25</u> 91		<u>15</u> 92	
P 7	<u>30</u> 87	<u>18</u> 85		<u>30</u> 92		<u>18</u> 91	
P 8		<u>21</u> 85				<u>21</u> 91	
P 9		<u>24</u> 85				<u>24</u> 91	
P10		<u>27</u> 86				<u>27</u> 91	
P11		<u>30</u> 86				<u>30</u> 90	
P12		<u>33</u> 86				<u>33</u> 90	
P13		<u>36</u> 87				<u>36</u> 90	
P14		<u>39</u> 88				<u>39</u> 90	
P15		<u>42</u> 89				<u>42</u> 90	
P16		<u>45</u> 90				<u>45</u> 91	
P17		<u>48</u> 91				<u>48</u> 91	
P18		<u>51</u> 92				<u>51</u> 91	
P19		<u>54</u> 93				<u>54</u> 91	
P20		<u>57</u> 95				<u>57</u> 91	
		<u>60</u> 97				<u>60</u> 91	

TKT # 15293

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Company Leben Drilling Company Lease & Well No. #1 Swafford
 Elevation 2091 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 15293
 Date 7/ 25/82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 4611 ft. to 4625 ft. Total Depth 4625 ft.
 Packer Depth 4606 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4611 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4614 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4617 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type dapac Viscosity 63 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 25.6 cc. Drill Pipe Length 4435 I. D. 3.8 in.
 Chlorides 21,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 14 ft. Size 5 1/2 in.
 Did Well Flow? Yes 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 throughout flow periods. Gas to surface in one minute on pre-flow. See attached sheet for gas measurements.

Recovered 550 ft. of clean gassy oil (36 Gravity)
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Flowed oil in ten minutes on pre-flow. Overrun thirty minutes on final shut-in (working on rig)

Time Set Packer(s) 3:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 124°
 Initial Hydrostatic Pressure (A) 2378 P.S.I.
 Initial Flow Period Minutes 25 (B) 616 P.S.I. to (C) 1107 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1550 P.S.I.
 Final Flow Period Minutes 10 (E) 984 P.S.I. to (F) 1017 P.S.I.
 Final Closed In Period Minutes 120 (G) 1554 P.S.I.
 Final Hydrostatic Pressure (H) 2302 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/25/82

Test Ticket No. 15293

Recorder No. 2607 Capacity 4150 Location 4614 Ft.

Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2378</u> P.S.I.	Open Tool	<u>3:15A</u>	<u>M</u>
B First Initial Flow Pressure	<u>616</u> P.S.I.	First Flow Pressure	<u>25</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>1107</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1550</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>984</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>1017</u> P.S.I.			
G Final Closed-in Pressure	<u>1554</u> P.S.I.			
H Final Hydrostatic Mud	<u>2302</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 5 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In

Breakdown: 40 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 <u>0</u>	<u>616</u>	<u>0</u>	<u>1107</u>	<u>0</u>	<u>984</u>	<u>0</u>	<u>1017</u>
P 2 <u>5</u>	<u>751</u>	<u>3</u>	<u>1487</u>	<u>5</u>	<u>984</u>	<u>3</u>	<u>1497</u>
P 3 <u>10</u>	<u>851</u>	<u>6</u>	<u>1506</u>	<u>10</u>	<u>1017</u>	<u>6</u>	<u>1515</u>
P 4 <u>15</u>	<u>992</u>	<u>9</u>	<u>1518</u>			<u>9</u>	<u>1520</u>
P 5 <u>20</u>	<u>1066</u>	<u>12</u>	<u>1525</u>			<u>12</u>	<u>1527</u>
P 6 <u>25</u>	<u>1107</u>	<u>15</u>	<u>1531</u>			<u>15</u>	<u>1532</u>
P 7		<u>18</u>	<u>1536</u>			<u>18</u>	<u>1537</u>
P 8		<u>21</u>	<u>1538</u>			<u>21</u>	<u>1542</u>
P 9		<u>24</u>	<u>1540</u>			<u>24</u>	<u>1543</u>
P10		<u>27</u>	<u>1542</u>			<u>27</u>	<u>1544</u>
P11		<u>30</u>	<u>1543</u>			<u>30</u>	<u>1545</u>
P12		<u>33</u>	<u>1544</u>			<u>33</u>	<u>1546</u>
P13		<u>36</u>	<u>1545</u>			<u>36</u>	<u>1547</u>
P14		<u>39</u>	<u>1546</u>			<u>39</u>	<u>1548</u>
P15		<u>42</u>	<u>1547</u>			<u>42</u>	<u>1549</u>
P16		<u>45</u>	<u>1548</u>			<u>45</u>	<u>1550</u>
P17		<u>48</u>	<u>1549</u>			<u>48</u>	<u>1551</u>
P18		<u>51</u>	<u>1550</u>			<u>51</u>	<u>1552</u>
P19		<u>54</u>	<u>1550</u>			<u>54</u>	<u>1553</u>
P20		<u>57</u>	<u>1550</u>			<u>57</u>	<u>1554</u>
		<u>60</u>	<u>1550</u>			<u>60</u>	<u>1554</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 7/25/82

Test Ticket No. 15293

Recorder No. 2607 Capacity 4150 Location 4614 Ft.

Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 124 °F

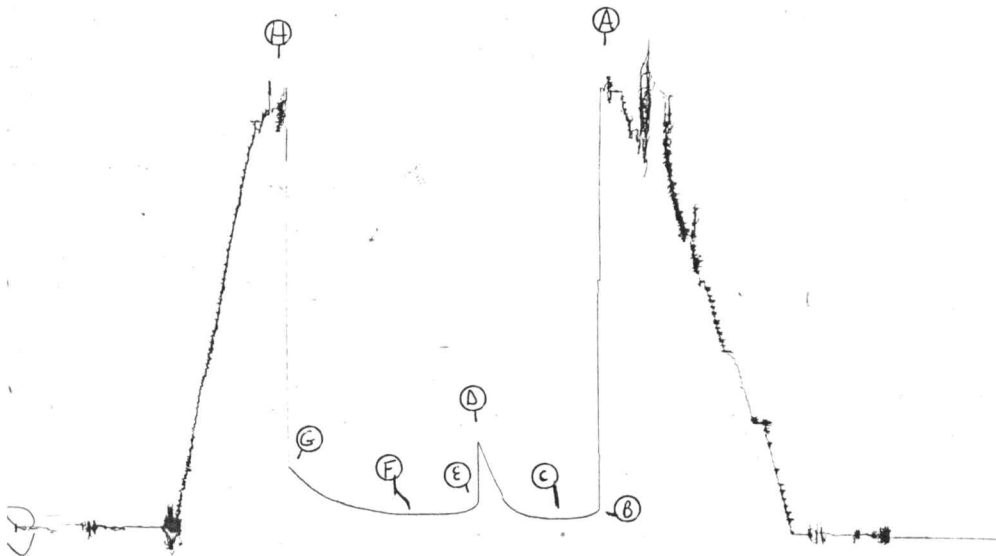
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2378</u> P.S.I.	Open Tool	<u>3:15A</u>	<u>M</u>
B First Initial Flow Pressure	<u>616</u> P.S.I.	First Flow Pressure	<u>25</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>1107</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1550</u> P.S.I.	Second Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
E Second Initial Flow Pressure	<u>984</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>1017</u> P.S.I.			
G Final Closed-in Pressure	<u>1554</u> P.S.I.			
H Final Hydrostatic Mud	<u>2302</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1554
P 2				66	1554
P 3				69	1554
P 4				72	1554
P 5				75	1554
P 6				78	1554
P 7				81	1554
P 8				84	1554
P 9				87	1554
P10				90	1554
P11				93	1554
P12				96	1554
P13				99	1554
P14				102	1554
P15				105	1554
P16				108	1554
P17				111	1554
P18				114	1554
P19				117	1554
P20				120	1554

TKT # 15294

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Company Leben Drilling Company Lease & Well No. #1 Swafford
 Elevation 2091 Kelly Bushing Formation Kinderhook Effective Pay - Ft. Ticket No. 15294
 Date 7/ 26 /82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Robert L. Layman Western Representative Jim Wondra

Formation Test No. 5 Interval Tested from 4630 ft. to 4660 ft. Total Depth 4660 ft.
 Packer Depth 4625 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4630 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4649 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4652 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type dapac Viscosity 68 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 15.2 cc. Drill Pipe Length 4446 I. D. 3.8 in.
 Chlorides 22,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 410 Anchor Length 30 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 in.

Blow: Weak blow throughout initial flow period. Weak blow and died in forty-three minutes on final flow period.

Recovered 70 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 11:45 ~~A.M.~~ P.M. Time Started Off Bottom 3:30 ~~A.M.~~ P.M. Maximum Temperature 125°
 Initial Hydrostatic Pressure (A) 2290 P.S.I.
 Initial Flow Period Minutes 30 (B) 89 P.S.I. to (C) 89 P.S.I.
 Initial Closed In Period Minutes 60 (D) 504 P.S.I.
 Final Flow Period Minutes 50 (E) 106 P.S.I. to (F) 106 P.S.I.
 Final Closed In Period Minutes 90 (G) 353 P.S.I.
 Final Hydrostatic Pressure (H) 2329 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/26/82 Test Ticket No. 15294
 Recorder No. 2607 Capacity 4150 Location 4649 Ft.
 Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2290 P.S.I.	Open Tool	11:45P	M
B First Initial Flow Pressure	89 P.S.I.	First Flow Pressure	30 Mins	30 Mins.
C First Final Flow Pressure	89 P.S.I.	Initial Closed-in Pressure	60 Mins	60 Mins.
D Initial Closed-in Pressure	504 P.S.I.	Second Flow Pressure	45 Mins	50 Mins.
E Second Initial Flow Pressure	106 P.S.I.	Final Closed-in Pressure	90 Mins	90 Mins.
F Second Final Flow Pressure	106 P.S.I.			
G Final Closed-in Pressure	353 P.S.I.			
H Final Hydrostatic Mud	2329 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>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>10</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>30</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	89	0	89	0	106	0	106
P 2	5	89	3	91	5	106	3	106
P 3	10	89	6	93	10	106	6	106
P 4	15	89	9	95	15	106	9	106
P 5	20	89	12	97	20	106	12	108
P 6	25	89	15	98	25	106	15	111
P 7	30	89	18	99	30	106	18	114
P 8			21	104	35	106	21	118
P 9			24	109	40	106	24	121
P10			27	117	45	106	27	125
P11			30	125	50	106	30	129
P12			33	140			33	134
P13			36	157			36	136
P14			39	179			39	140
P15			42	229			42	146
P16			45	265			45	152
P17			48	309			48	159
P18			51	357			51	167
P19			54	406			54	174
P20			57	461			57	180
			60	504			60	188

WESTERN TESTING CO., INC.
Pressure Data

Date 7/26/82 Test Ticket No. 15294
 Recorder No. 2607 Capacity 4150 Location 4649 Ft.
 Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2290</u> P.S.I.	Open Tool	<u>11:45P</u>	<u>M</u>
B. First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>89</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>504</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>50</u> Mins.
E. Second Initial Flow Pressure	<u>106</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F. Second Final Flow Pressure	<u>106</u> P.S.I.			
G. Final Closed-in Pressure	<u>353</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2329</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

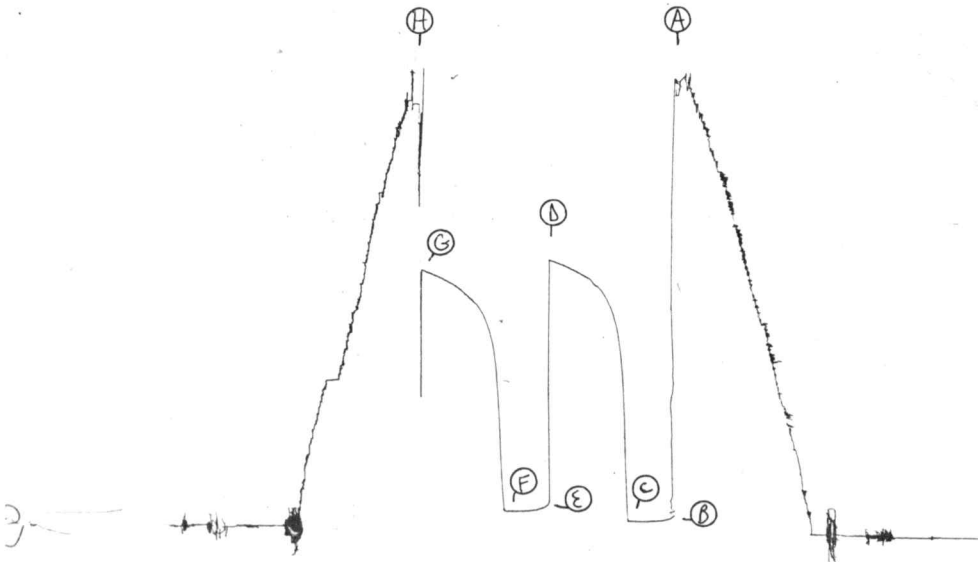
Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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	201
P 2						66	213
P 3						69	229
P 4						72	243
P 5						75	263
P 6						78	281
P 7						81	299
P 8						84	322
P 9						87	345
P10						90	353
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 15295

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Company Leben Drilling Company Lease & Well No. #1 Swafford
 Elevation 2091 Kelly Bushing Formation -- Effective Pay -- Ft. Ticket No. 15295
 Date 7/26/82 Sec. 5 Twp. 28S Range 15W County Pratt State Kansas
 Test Approved by Rbert L. Layman Western Representative Jim Wondra

Formation Test No. 6 Interval Tested from 4703 ft. to 4717 ft. Total Depth 4717 ft.
 Packer Depth 4697 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4703 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4706 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4709 ft. Recorder Number 3351 Cap. 44000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Leben Drilling Rig #11 Drill Collar Length 155 I. D. 2 1/4 in.
 Mud Type dapac Viscosity 65 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 15.0 cc. Drill Pipe Length 4519 I. D. 3.8 in.
 Chlorides 25,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD
 Jars: Make WTC Serial Number 410 Anchor Length 14 ft. Size 5 1/2 OD
 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 blow throughout flow periods.

Recovered 130 ft. of drilling mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 9:15 ~~A.M.~~ P.M. Time Started Off Bottom 12:15 ~~A.M.~~ P.M. Maximum Temperature 125°
 Initial Hydrostatic Pressure (A) 2447 P.S.I.
 Initial Flow Period Minutes 30 (B) 65 P.S.I. to (C) 65 P.S.I.
 Initial Closed In Period Minutes 63 (D) 1474 P.S.I.
 Final Flow Period Minutes 30 (E) 111 P.S.I. to (F) 111 P.S.I.
 Final Closed In Period Minutes 66 (G) 1407 P.S.I.
 Final Hydrostatic Pressure (H) 2316 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/26/82 Test Ticket No. 15295
 Recorder No. 2607 Capacity 4150 Location 4706 Ft.
 Clock No. -- Elevation 2091 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2447	P.S.I.	9:15P	M
B First Initial Flow Pressure	65	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	65	P.S.I.	60	Mins. 63 Mins.
D Initial Closed-in Pressure	1474	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	111	P.S.I.	60	Mins. 66 Mins.
F Second Final Flow Pressure	111	P.S.I.		
G Final Closed-in Pressure	1407	P.S.I.		
H Final Hydrostatic Mud	2316	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of 6		of 21		of 6		of 22	
	5 mins. and a		3 mins. and a		5 mins. and a		3 mins. and a	
	final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	65	0	65	0	111	0	111	
P 2 5	65	3	190	5	111	3	121	
P 3 10	65	6	646	10	111	6	455	
P 4 15	65	9	960	15	111	9	802	
P 5 20	65	12	1107	20	111	12	1006	
P 6 25	65	15	1188	25	111	15	1086	
P 7 30	65	18	1240	30	111	18	1144	
P 8		21	1280			21	1186	
P 9		24	1315			24	1221	
P10		27	1334			27	1242	
P11		30	1355			30	1262	
P12		33	1377			33	1280	
P13		36	1388			36	1300	
P14		39	1400			39	1317	
P15		42	1413			42	1331	
P16		45	1423			45	1343	
P17		48	1433			48	1355	
P18		51	1443			51	1367	
P19		54	1453			54	1376	
P20		57	1463			57	1385	
WTC - 4		60	1470			60	1394	
		63	1474			63	1402	
		66				66	1407	

