



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company Sunburst Exploration Co., Inc. & Claud B. Hamill Lease & Well No. #1 Shalz "A"
Elevation --- Formation --- Effective Pay --- Ft. Ticket No. 16310
Date 5/31/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by Terry L. McLeod Western Representative Roger Lisenby
Formation Test No. 1 Interval Tested from 3858 ft. to 3880 ft. Total Depth 3880 ft.
Packer Depth 3853 ft. Size 6 5/8 in. Packer Depth 3858 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3870 ft. Recorder Number 13221 Cap. 4450
Bottom Recorder Depth (Outside) 3873 ft. Recorder Number 13271 Cap. 4400
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 32 Weight Pipe Length 569 I. D. 2.7 in.
Weight 9.4 Water Loss 16.4 cc. Drill Pipe Length 3266 I. D. 3.8 in.
Chlorides 74,000 P.P.M. Test Tool Length 23 ft. Tool Size 4-3/4 in.
Jars: Make - Serial Number - Anchor Length 22 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 in.

Blow: Strong blow throughout test. (On bottom of vucket in one minute)

Recovered 2370 ft. of water Chlorides 30,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set	Packer(s)	<u>4:45</u>	<u>A.M.</u>	Time Started Off Bottom	<u>7:45</u>	<u>A.M.</u>	Maximum Temperature	<u>117°</u>
			<u>P.M.</u>			<u>P.M.</u>		
Initial Hydrostatic Pressure					<u>2004</u>		P.S.I.	
Initial Flow Period				Minutes <u>25</u>	<u>495</u>		P.S.I. to (C)	<u>931</u> P.S.I.
Initial Closed In Period				Minutes <u>36</u>	<u>1105</u>		P.S.I.	
Final Flow Period				Minutes <u>45</u>	<u>1091</u>		P.S.I. to (F)	<u>1118</u> P.S.I.
Final Closed In Period				Minutes <u>60</u>	<u>1122</u>		P.S.I.	
Final Hydrostatic Pressure					<u>1949</u>		P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 5/31/82 Test Ticket No. 16310
 Recorder No. 13221 Capacity 4450 Location 3870 Ft.
 Clock No. -- Elevation --- Well Temperature 117 °F

Point	Pressure		Time Given 4:45A	M	Time Computed
A. Initial Hydrostatic Mud	<u>2004</u>	P.S.I.	<u>30</u>		<u>25</u>
B First Initial Flow Pressure	<u>495</u>	P.S.I.	<u>45</u>	Mins.	<u>36</u>
C First Final Flow Pressure	<u>931</u>	P.S.I.	<u>45</u>	Mins.	<u>45</u>
D Initial Closed-in Pressure	<u>1105</u>	P.S.I.	<u>60</u>	Mins.	<u>60</u>
E Second Initial Flow Pressure	<u>1091</u>	P.S.I.			
F Second Final Flow Pressure	<u>1118</u>	P.S.I.			
G Final Closed-in Pressure	<u>1122</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1949</u>	P.S.I.			
Open Tool					
First Flow Pressure					
Initial Closed-in Pressure					
Second Flow Pressure					
Final Closed-in Pressure					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>9</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>495</u>	<u>0</u>	<u>931</u>	<u>0</u>	<u>1091</u>	<u>0</u>	<u>1118</u>
P 2 <u>5</u>	<u>562</u>	<u>3</u>	<u>1008</u>	<u>5</u>	<u>1091</u>	<u>3</u>	<u>1119</u>
P 3 <u>10</u>	<u>694</u>	<u>6</u>	<u>1029</u>	<u>10</u>	<u>1093</u>	<u>6</u>	<u>1119</u>
P 4 <u>15</u>	<u>812</u>	<u>9</u>	<u>1045</u>	<u>15</u>	<u>1098</u>	<u>9</u>	<u>1120</u>
P 5 <u>20</u>	<u>894</u>	<u>12</u>	<u>1058</u>	<u>20</u>	<u>1105</u>	<u>12</u>	<u>1120</u>
P 6 <u>25</u>	<u>931</u>	<u>15</u>	<u>1068</u>	<u>25</u>	<u>1109</u>	<u>15</u>	<u>1121</u>
P 7		<u>18</u>	<u>1078</u>	<u>30</u>	<u>1112</u>	<u>18</u>	<u>1121</u>
P 8		<u>21</u>	<u>1085</u>	<u>35</u>	<u>1115</u>	<u>21</u>	<u>1121</u>
P 9		<u>24</u>	<u>1090</u>	<u>40</u>	<u>1117</u>	<u>24</u>	<u>1122</u>
P10		<u>27</u>	<u>1095</u>	<u>45</u>	<u>1118</u>	<u>27</u>	<u>1122</u>
P11		<u>30</u>	<u>1100</u>			<u>30</u>	<u>1122</u>
P12		<u>33</u>	<u>1103</u>			<u>33</u>	<u>1122</u>
P13		<u>36</u>	<u>1105</u>			<u>36</u>	<u>1122</u>
P14						<u>39</u>	<u>1122</u>
P15						<u>42</u>	<u>1122</u>
P16						<u>45</u>	<u>1122</u>
P17						<u>48</u>	<u>1122</u>
P18						<u>51</u>	<u>1122</u>
P19						<u>54</u>	<u>1122</u>
P20						<u>57</u>	<u>1122</u>
						<u>60</u>	<u>1122</u>



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Sunburst Exploration Co., Inc. & Claud B. Hamill Lease & Well No. Shalz "A" #1
Company

Elevation --- Formation --- Effective Pay --- Ft. Ticket No. 16311

Date 6/2/82 Sec 35 Twp 9S Range 36W County Thomas State Kansas

Test Approved by Terry McLeod Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 4210 ft. to 4265 ft. Total Depth 4265 ft.

Packer Depth 4205 ft. Size 6 5/8 in. Packer Depth 4210 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4222 ft. Recorder Number 13221 Cap 4450

Bottom Recorder Depth (Outside) 4225 ft. Recorder Number 13271 Cap 4400

Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I.D. - in.

Mud Type starch Viscosity 42 Weight Pipe Length 569 I.D. 2.7 in.

Weight 9.7 Water Loss 13.6 cc Drill Pipe Length 3618 I.D. 3.8 in.

Chlorides 84,000 P.P.M. Test Tool Length 23 ft. Tool Size 4-3/4 in.

Jars: Make - Serial Number - Anchor Length 55 ft. Size 5 1/2 with D.I.R.

Did Well Flow? - 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 FH in.

Blow: Weak blow one inch in bucket on initial flow period. Weak blow one half inch in bucket on final flow period.

Recovered 290 ft. of watery mud (few oil specks)

Recovered - ft. of

Recovered - ft. of Chlorides 47,000ppm

Recovered - ft. of

Recovered - ft. of

Remarks:

Time Set Packer(s) 6:42 A.M. Time Started Off Bottom 9:42 A.M. Maximum Temperature ?

Initial Hydrostatic Pressure (A) 2206 P.S.I.

Initial Flow Period Minutes 20 (B) 105 P.S.I. to (C) 105 P.S.I.

Initial Closed In Period Minutes 39 (D) 1145 P.S.I.

Final Flow Period Minutes 35 (E) 163 P.S.I. to (F) 172 P.S.I.

Final Closed In Period Minutes 51 (G) 1109 P.S.I.

Final Hydrostatic Pressure (H) 2206 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/2/82 Test Ticket No. 16311
 Recorder No. 13221 Capacity 4450 Location 4222 Ft. ---
 Clock No. --- Elevation --- Well Temperature --- °F ---

Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	2206 P.S.I.		6:42A	M
B First Initial Flow Pressure	105 P.S.I.	First Flow Pressure	30 Mins	20 Mins.
C First Final Flow Pressure	105 P.S.I.	Initial Closed-in Pressure	45 Mins	39 Mins.
D Initial Closed-in Pressure	1145 P.S.I.	Second Flow Pressure	45 Mins	35 Mins.
E Second Initial Flow Pressure	163 P.S.I.	Final Closed-in Pressure	60 Mins	51 Mins.
F Second Final Flow Pressure	172 P.S.I.			
G Final Closed-in Pressure	1109 P.S.I.			
H Final Hydrostatic Mud	2206 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>17</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>	105	0	105	0	163	0	172
P 2 <u>5</u>	105	3	221	5	163	3	327
P 3 <u>10</u>	105	6	535	10	163	6	586
P 4 <u>15</u>	105	9	765	15	163	9	739
P 5 <u>20</u>	105	12	896	20	163	12	823
P 6		15	956	25	166	15	878
P 7		18	1000	30	169	18	918
P 8		21	1031	35	172	21	949
P 9		24	1054			24	976
P10		27	1076			27	998
P11		30	1096			30	1018
P12		33	1114			33	1036
P13		36	1130			36	1049
P14		39	1145			39	1067
P15						42	1080
P16						45	1089
P17						48	1099
P18						51	1109
P19							
P20							



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Company Sunburst Exploration Co., Inc. & Claud B. Hamill Lease & Well No. #1 "A" ShalzElevation ----- Formation --- Effective Pay --- Ft. Ticket No. 16312Date 6/ 2 /82 Sec. 35 Twp. 9S Range 36W County Thomas State KansasTest Approved by Terry L. McLeod Western Representative Roger LisenbyFormation Test No. 3 Interval Tested from 4291 ft. to 4330 ft. Total Depth 4330 ft.Packer Depth 4286 ft. Size 6 5/8 in. Packer Depth 4291 ft. Size 6 5/8 in.Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.Depth of Selective Zone Set -Top Recorder Depth (Inside) 4305 ft. Recorder Number 13221 Cap. 4450Bottom Recorder Depth (Outside) 4308 ft. Recorder Number 13271 Cap. 4400Below Straddle Recorder Depth - ft. Recorder Number - Cap. -Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I. D. - in.Mud Type starch Viscosity 44 Weight Pipe Length 569 I. D. 2.7 in.Weight 9.6 Water Loss 12.4 cc. Drill Pipe Length 3699 I. D. 3.8 in.Chlorides 84,000 P.P.M. Test Tool Length 23 ft. Tool Size 4-3/4 in.Jars: Make - Serial Number - Anchor Length 39 ft. Size 5 1/2 in.Did Well Flow? - 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 FH in.Blow: Good blow slowly increased to bottom of bucket in twenty two minutes on initial flow period. Final flow blow slowly increased to ten inches in bucket.Recovered 720 ft. of muddy water (few oil specks on top)Recovered - ft. of Chlorides 39,000 ppmRecovered - ft. of -Recovered - ft. of -Recovered - ft. of -Remarks: -Time Set Packer(s) 12:35 ~~P.M.~~ A.M. Time Started Off Bottom 3:35 ~~P.M.~~ A.M. Maximum Temperature 124°Initial Hydrostatic Pressure (A) 2251 P.S.I.Initial Flow Period Minutes 28 (B) 153 P.S.I. to (C) 194 P.S.I.Initial Closed In Period Minutes 45 (D) 1229 P.S.I.Final Flow Period Minutes 40 (E) 329 P.S.I. to (F) 369 P.S.I.Final Closed In Period Minutes 60 (G) 1208 P.S.I.Final Hydrostatic Pressure (H) 2212 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/2/82 Test Ticket No. 16312
 Recorder No. 13221 Capacity 4450 Location 4305 Ft.
 Clock No. --- Elevation --- Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2251</u>	P.S.I.	<u>12:35A</u>	<u>M</u>
B First Initial Flow Pressure	<u>153</u>	P.S.I.	<u>30</u>	<u>28</u> Mins.
C First Final Flow Pressure	<u>194</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1229</u>	P.S.I.	<u>45</u>	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>329</u>	P.S.I.	<u>45</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>369</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
G Final Closed-in Pressure	<u>1208</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2212</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>15</u> Inc.		Breakdown: <u>8</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>3</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>153</u>	<u>0</u>	<u>194</u>	<u>0</u>	<u>329</u>	<u>0</u>	<u>369</u>
P 2 <u>5</u>	<u>153</u>	<u>3</u>	<u>311</u>	<u>5</u>	<u>329</u>	<u>3</u>	<u>522</u>
P 3 <u>10</u>	<u>153</u>	<u>6</u>	<u>624</u>	<u>10</u>	<u>329</u>	<u>6</u>	<u>867</u>
P 4 <u>15</u>	<u>158</u>	<u>9</u>	<u>1020</u>	<u>15</u>	<u>330</u>	<u>9</u>	<u>1004</u>
P 5 <u>20</u>	<u>169</u>	<u>12</u>	<u>1074</u>	<u>20</u>	<u>335</u>	<u>12</u>	<u>1042</u>
P 6 <u>24</u>	<u>185</u>	<u>15</u>	<u>1105</u>	<u>25</u>	<u>342</u>	<u>15</u>	<u>1067</u>
P 7 <u>28</u>	<u>194</u>	<u>18</u>	<u>1129</u>	<u>30</u>	<u>351</u>	<u>18</u>	<u>1089</u>
P 8		<u>21</u>	<u>1150</u>	<u>35</u>	<u>360</u>	<u>21</u>	<u>1107</u>
P 9		<u>24</u>	<u>1166</u>	<u>40</u>	<u>369</u>	<u>24</u>	<u>1122</u>
P10		<u>27</u>	<u>1179</u>			<u>27</u>	<u>1136</u>
P11		<u>30</u>	<u>1189</u>			<u>30</u>	<u>1150</u>
P12		<u>33</u>	<u>1199</u>			<u>33</u>	<u>1158</u>
P13		<u>36</u>	<u>1209</u>			<u>36</u>	<u>1167</u>
P14		<u>39</u>	<u>1217</u>			<u>39</u>	<u>1174</u>
P15		<u>42</u>	<u>1223</u>			<u>42</u>	<u>1181</u>
P16		<u>45</u>	<u>1229</u>			<u>45</u>	<u>1188</u>
P17						<u>48</u>	<u>1193</u>
P18						<u>51</u>	<u>1198</u>
P19						<u>54</u>	<u>1202</u>
P20						<u>57</u>	<u>1205</u>
						<u>60</u>	<u>1208</u>



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Company Sunburst Exploration Co., Inc. & Claud B. Hamilton Lease & Well No. Shalz "A" #1
Elevation --- Formation --- Effective Pay --- Ft. Ticket No. 16313
Date 6/3/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by: Terry McLeod Western Representative Roger Lisenby
Formation Test No. 4 Interval Tested from 4334 ft. to 4385 ft. Total Depth 4385 ft.
Packer Depth 4329 ft. Size 6 5/8 in. Packer Depth 4334 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4343 ft. Recorder Number 13221 Cap. 4450
Bottom Recorder Depth (Outside) 4346 ft. Recorder Number 13271 Cap. 4400
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Thunderbird Drilg. Rig #1 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 39 Weight Pipe Length 569 I. D. 2.7 in.
Weight 9.5 Water Loss 14.8 cc. Drill Pipe Length 3742 I. D. 3.8 in.
Chlorides 82,000 P.P.M. Test Tool Length 23 ft. Tool Size 4-3/4 in.
Jars: Make - Serial Number - Anchor Length 51 ft. Size 5 1/2 in.
Did Well Flow? - 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 FH in.

Blow: Weak blow slowly increased to seven inches in bucket on initial flow period. Weak blow slowly increased to six inches in bucket on final flow period.

Recovered 90 ft. of gas in pipe
Recovered 30 ft. of 20% mud; 20% water; 40% oil; 20% gas
Recovered 180 ft. of 15% mud; 17% water; 53% oil; 15% gas
Recovered 120 ft. of 20% mud; 10% water; 35% oil; 35% gas
Recovered 60 ft. of 15% mud; 10% water; 35% oil; 40% gas
Recovered 60 ft. of 28% mud; 10% water; 35% oil; 27% gas
Recovered 120 ft. of water Chlorides 36,000 ppm

Time Set Packer(s) 7:43 A.M. Time Started Off Bottom 10:43 A.M. Maximum Temperature 124°
Initial Hydrostatic Pressure (A) 2295 P.S.I.
Initial Flow Period Minutes 30 (B) 169 P.S.I. to (C) 156 P.S.I.
Initial Closed In Period Minutes 45 (D) 1252 P.S.I.
Final Flow Period Minutes 40 (E) 277 P.S.I. to (F) 286 P.S.I.
Final Closed In Period Minutes 60 (G) 1241 P.S.I.
Final Hydrostatic Pressure (H) 2237 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/3/82

Test Ticket No. 16313

Recorder No. 13221

Capacity 4450

Location 4343 Ft.

Clock No. -- Elevation ---

Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2295</u> P.S.I.	Open Tool	<u>7:43P</u>	<u>M</u>
B First Initial Flow Pressure	<u>169</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>156</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1252</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>286</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1241</u> P.S.I.			
G Final Closed-in Pressure	<u>2237</u> P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>8</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>169</u>	<u>0</u>	<u>156</u>	<u>0</u>	<u>277</u>	<u>0</u>	<u>286</u>
P 2 <u>5</u>	<u>138</u>	<u>3</u>	<u>288</u>	<u>5</u>	<u>246</u>	<u>3</u>	<u>419</u>
P 3 <u>10</u>	<u>137</u>	<u>6</u>	<u>577</u>	<u>10</u>	<u>241</u>	<u>6</u>	<u>743</u>
P 4 <u>15</u>	<u>139</u>	<u>9</u>	<u>1002</u>	<u>15</u>	<u>243</u>	<u>9</u>	<u>971</u>
P 5 <u>20</u>	<u>146</u>	<u>12</u>	<u>1063</u>	<u>20</u>	<u>250</u>	<u>12</u>	<u>1033</u>
P 6 <u>25</u>	<u>153</u>	<u>15</u>	<u>1114</u>	<u>25</u>	<u>259</u>	<u>15</u>	<u>1069</u>
P 7 <u>30</u>	<u>156</u>	<u>18</u>	<u>1134</u>	<u>30</u>	<u>265</u>	<u>18</u>	<u>1095</u>
P 8		<u>21</u>	<u>1154</u>	<u>35</u>	<u>277</u>	<u>21</u>	<u>1118</u>
P 9		<u>24</u>	<u>1174</u>	<u>40</u>	<u>286</u>	<u>24</u>	<u>1136</u>
P10		<u>27</u>	<u>1192</u>			<u>27</u>	<u>1152</u>
P11		<u>30</u>	<u>1205</u>			<u>30</u>	<u>1165</u>
P12		<u>33</u>	<u>1217</u>			<u>33</u>	<u>1176</u>
P13		<u>36</u>	<u>1225</u>			<u>36</u>	<u>1190</u>
P14		<u>39</u>	<u>1236</u>			<u>39</u>	<u>1199</u>
P15		<u>42</u>	<u>1245</u>			<u>42</u>	<u>1205</u>
P16		<u>45</u>	<u>1252</u>			<u>45</u>	<u>1212</u>
P17						<u>48</u>	<u>1220</u>
P18						<u>51</u>	<u>1227</u>
P19						<u>54</u>	<u>1232</u>
P20						<u>57</u>	<u>1237</u>
						<u>60</u>	<u>1241</u>



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company Sunburst Exploration Co., Inc. & Claud B. Hamill Lease & Well No. #1 "A" Shalz

Elevation ----- Formation --- Effective Pay --- Ft. Ticket No. 16314

Date 6/ 4/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas

Test Approved by Terry L. McLeod Western Representative Roger Lisenby

Formation Test No. 5 Interval Tested from 4387 ft. to 4447 ft. Total Depth 4447 ft.

Packer Depth 4382 ft. Size 6 5/8 in. Packer Depth 4387 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4396 ft. Recorder Number 13221 Cap. 4450

Bottom Recorder Depth (Outside) 4399 ft. Recorder Number 13271 Cap. 4400

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 45 Weight Pipe Length 569 I. D. 2.7 in.

Weight 9.6 Water Loss 11.6 cc. Drill Pipe Length 3795 I. D. 3.8 in.

Chlorides 82,000 P.P.M. Test Tool Length 23 ft. Tool Size 4-3/4 in.

Jars: Make - Serial Number - Anchor Length 60 ft. Size 5 1/2 in.

Did Well Flow? - 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 in.

Blow: Weak blow slowly increased to one and one half inches in bucket on initial flow period.

Weak blow slowly increased to one inch in bucket on final flow period.

Recovered 80 ft. of muddy water Chlorides 39,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Read outside Recorder. Inside recorder was running slow.

Time Set Packer(s) 5:14 AM Time Started Off Bottom 8:14 AM Maximum Temperature 125°
P.M. P.M.

Initial Hydrostatic Pressure 2268 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 35 P.S.I. to (C) 35 P.S.I.

Initial Closed In Period 39 Minutes (D) 1238 P.S.I.

Final Flow Period 45 Minutes (E) 58 P.S.I. to (F) 61 P.S.I.

Final Closed In Period 60 Minutes (G) 1239 P.S.I.

Final Hydrostatic Pressure 2241 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/ 4/82 Test Ticket No. 16314
 Recorder No. 13271 Capacity 4400 Location 4399 Ft.
 Clock No. --- Elevation --- Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	2268	P.S.I.	5:14P	M
B First Initial Flow Pressure	35	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	35	P.S.I.	45	Mins. 39 Mins.
D Initial Closed-in Pressure	1238	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	58	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	61	P.S.I.		
G Final Closed-in Pressure	1239	P.S.I.		
H Final Hydrostatic Mud	2241	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>9</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>35</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>61</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>746</u>	<u>5</u>	<u>58</u>	<u>3</u>	<u>621</u>
P 3 <u>10</u>	<u>35</u>	<u>6</u>	<u>912</u>	<u>10</u>	<u>58</u>	<u>6</u>	<u>831</u>
P 4 <u>15</u>	<u>35</u>	<u>9</u>	<u>1002</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>932</u>
P 5 <u>20</u>	<u>35</u>	<u>12</u>	<u>1054</u>	<u>20</u>	<u>59</u>	<u>12</u>	<u>993</u>
P 6 <u>25</u>	<u>35</u>	<u>15</u>	<u>1092</u>	<u>25</u>	<u>60</u>	<u>15</u>	<u>1035</u>
P 7 <u>30</u>	<u>35</u>	<u>18</u>	<u>1126</u>	<u>30</u>	<u>61</u>	<u>18</u>	<u>1067</u>
P 8		<u>21</u>	<u>1151</u>	<u>35</u>	<u>61</u>	<u>21</u>	<u>1093</u>
P 9		<u>24</u>	<u>1171</u>	<u>40</u>	<u>61</u>	<u>24</u>	<u>1117</u>
P10		<u>27</u>	<u>1187</u>	<u>45</u>	<u>61</u>	<u>27</u>	<u>1135</u>
P11		<u>30</u>	<u>1205</u>			<u>30</u>	<u>1152</u>
P12		<u>33</u>	<u>1219</u>			<u>33</u>	<u>1165</u>
P13		<u>36</u>	<u>1228</u>			<u>36</u>	<u>1177</u>
P14		<u>39</u>	<u>1238</u>			<u>39</u>	<u>1190</u>
P15						<u>42</u>	<u>1199</u>
P16						<u>45</u>	<u>1208</u>
P17						<u>48</u>	<u>1216</u>
P18						<u>51</u>	<u>1222</u>
P19						<u>54</u>	<u>1228</u>
P20						<u>57</u>	<u>1234</u>
						<u>60</u>	<u>1239</u>



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(316) 262-5861

Company Sunburst Exploration Co., Inc. & Claud B. Hamill Lease & Well No. #1 "A" Shalz
Elevation ----- Formation --- Effective Pay --- Ft. Ticket No. 16315
Date 6/ 6 /82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by Terry L. McLeod Western Representative Roger Lisenby
Formation Test No. 6 Interval Tested from 4515 ft. to 4670 ft. Total Depth 4670 ft.
Packer Depth 4510 ft. Size 6 5/8 in. Packer Depth 4515 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4524 ft. Recorder Number 13221 Cap. 4450
Bottom Recorder Depth (Outside) 4527 ft. Recorder Number 13271 Cap. 4400
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 50 Weight Pipe Length 569 I. D. 2.7 in.
Weight 9.8 Water Loss 11.6 cc. Drill Pipe Length 3986 I. D. 3.8 in.
Chlorides 82,000 P.P.M. Test Tool Length 23 ft. Tool Size 4-3/4 in.
Jars: Make - Serial Number - Anchor Length 155 ft. Size 5 1/2 in.
Did Well Flow? - 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 FH in.

Blow: Strong blow throughout test.

Recovered 3030 ft. of drilling mud
Recovered 360 ft. of watery mud Chlorides 38,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Lost circulation before test. Read outside recorder; inside recorder was running slow.

Time Set Packer(s) 11:25 ~~AM~~ PM Time Started Off Bottom 2:25 ~~AM~~ PM Maximum Temperature 127°
Initial Hydrostatic Pressure (A) 2327 P.S.I.
Initial Flow Period Minutes 20 (B) 1564 P.S.I. to (C) 1625 P.S.I.
Initial Closed In Period Minutes 45 (D) 1929 P.S.I.
Final Flow Period Minutes 40 (E) 1769 P.S.I. to (F) 1800 P.S.I.
Final Closed In Period Minutes 60 (G) 1882 P.S.I.
Final Hydrostatic Pressure (H) 2164 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/6/82 Test Ticket No. 16315
 Recorder No. 13271 Capacity 4400 Location 4527 Ft.
 Clock No. --- Elevation --- Well Temperature 127 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	2327 P.S.I.		11:25P	M
B. First Initial Flow Pressure	1564 P.S.I.	First Flow Pressure	30 Mins.	20 Mins.
C. First Final Flow Pressure	1625 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D. Initial Closed-in Pressure	1929 P.S.I.	Second Flow Pressure	45 Mins.	40 Mins.
E. Second Initial Flow Pressure	1769 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F. Second Final Flow Pressure	1800 P.S.I.			
G. Final Closed-in Pressure	1882 P.S.I.			
H. Final Hydrostatic Mud	2164 P.S.I.			

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>8</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	0	1564	0	1625	0	1769	0	1800
P 2	5	1564	3	1693	5	1769	3	1809
P 3	10	1566	6	1748	10	1769	6	1816
P 4	15	1592	9	1785	15	1773	9	1822
P 5	20	1625	12	1813	20	1780	12	1828
P 6			15	1833	25	1785	15	1833
P 7			18	1850	30	1790	18	1841
P 8			21	1867	35	1795	21	1846
P 9			24	1882	40	1800	24	1853
P10			27	1893			27	1856
P11			30	1904			30	1859
P12			33	1912			33	1862
P13			36	1918			36	1865
P14			39	1923			39	1868
P15			42	1926			42	1871
P16			45	1929			45	1874
P17							48	1876
P18							51	1878
P19							54	1880
P20							57	1881
							60	1882



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Company Sunburst Exploration Co. Inc. & Claud B. Hamill Lease & Well No Shalz "A" #1
Elevation 3407 Kelly Bushing Formation Johnson Effective Pay - Ft. Ticket No. 16975
Date 6/ 7/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by Terry McLeod Western Representative Clyde Scheffe
Formation Test No. 7 Interval Tested from 4659 ft. to 4730 ft. Total Depth 4730 ft.
Packer Depth 4654 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4659 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4720 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 4723 ft. Recorder Number 1134 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 46 Weight Pipe Length 558 I. D. 3.2 in.
Weight 9.4 Water Loss 12.0 cc. Drill Pipe Length 4078 I. D. 3.8 in.
Chlorides 80,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 71 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: MISRUN

Recovered 810 ft. of drilling mud 82,000 ppm chlorides

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: PACKER SEAT FAILURE

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 9:15 ~~A.M.~~ P.M. Maximum Temperature 122°
Initial Hydrostatic Pressure (A) 2378 P.S.I.
Initial Flow Period Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period Minutes (D) - P.S.I.
Final Flow Period Minutes (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period Minutes (G) - P.S.I.
Final Hydrostatic Pressure (H) 2273 P.S.I.



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Company Sunburst Exploration Co. Inc. & Claud B. Hamill Lease & Well No. Shalz "A" #1
Elevation 3407 Kelly Bushing Formation Morrow Sand Effective Pay - Ft. Ticket No. 17002
Date 6/8/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by Terry McLeod Western Representative Clyde Scheffe

Formation Test No. 8 Interval Tested from 4738 ft. to 4785 ft. Total Depth 4785 ft.

Packer Depth 4733 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4738 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4775 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 4778 ft. Recorder Number 1134 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Thunderbird Drlg. Rig #1

Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 46

Weight Pipe Length 558 I. D. 3.2 in.

Weight 9.4 Water Loss 12.0 cc.

Drill Pipe Length 4150 I. D. 3.8 in.

Chlorides 80,000 P.P.M.

Test Tool Length 30 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number -

Anchor Length 47 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: Strong blow off bottom in forty five seconds on initial flow period.. Strong blow decreasing to weak blow on final flow period.

Recovered 2130 ft. of muddy salt water Chlorides 34,000 ppm

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:20 A.M. Time Started Off Bottom 3:20 P.M. Maximum Temperature 124°

Initial Hydrostatic Pressure 2476 P.S.I.

Initial Flow Period 30 Minutes (B) 556 * P.S.I. to (C) 959 * P.S.I.

Initial Closed In Period 42 Minutes (D) 1099 P.S.I.

Final Flow Period 45 Minutes (E) 1070 P.S.I. to (F) 1113 P.S.I.

Final Closed In Period 60 Minutes (G) 1109 P.S.I.

Final Hydrostatic Pressure 2371 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/8/82 Test Ticket No. 17002
 Recorder No. 4331 Capacity 4150 Location 4775 Ft. 124
 Clock No. --- Elevation 3407 Kelly Bushing Well Temperature 124 °F
 Point Pressure Time Given Time Computed
 A. Initial Hydrostatic Mud 2476 P.S.I. Open Tool 12:20P M
 B First Initial Flow Pressure 556 * P.S.I. First Flow Pressure 30 Mins 30 Mins.
 C First Final Flow Pressure 959 * P.S.I. Initial Closed-in Pressure 45 Mins 42 Mins.
 D Initial Closed-in Pressure 1099 P.S.I. Second Flow Pressure 45 Mins 45 Mins.
 E Second Initial Flow Pressure 1070 P.S.I. Final Closed-in Pressure 60 Mins 60 Mins.
 F Second Final Flow Pressure 1113 P.S.I.
 G Final Closed-in Pressure 1109 P.S.I.
 H Final Hydrostatic Mud 2371 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>14</u> Inc.		Breakdown: <u>9</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>556 *</u>	<u>0</u>	<u>959 *</u>	<u>0</u>	<u>1070</u>	<u>0</u>	<u>1113</u>
P 2 <u>5</u>	<u>653 *</u>	<u>3</u>	<u>1088</u>	<u>5</u>	<u>1070</u>	<u>3</u>	<u>1113</u>
P 3 <u>10</u>	<u>821 *</u>	<u>6</u>	<u>1091</u>	<u>10</u>	<u>1087</u>	<u>6</u>	<u>1113</u>
P 4 <u>15</u>	<u>856 *</u>	<u>9</u>	<u>1093</u>	<u>15</u>	<u>1099</u>	<u>9</u>	<u>1110</u>
P 5 <u>20</u>	<u>920 *</u>	<u>12</u>	<u>1095</u>	<u>20</u>	<u>1106</u>	<u>12</u>	<u>1109</u>
P 6 <u>25</u>	<u>935 *</u>	<u>15</u>	<u>1097</u>	<u>25</u>	<u>1106</u>	<u>15</u>	<u>1109</u>
P 7 <u>30</u>	<u>959 *</u>	<u>18</u>	<u>1098</u>	<u>30</u>	<u>1108</u>	<u>18</u>	<u>1109</u>
P 8		<u>21</u>	<u>1098</u>	<u>35</u>	<u>1110</u>	<u>21</u>	<u>1109</u>
P 9		<u>24</u>	<u>1098</u>	<u>40</u>	<u>1111</u>	<u>24</u>	<u>1109</u>
P10		<u>27</u>	<u>1098</u>	<u>45</u>	<u>1113</u>	<u>27</u>	<u>1109</u>
P11		<u>30</u>	<u>1098</u>			<u>30</u>	<u>1109</u>
P12		<u>33</u>	<u>1099</u>			<u>33</u>	<u>1109</u>
P13		<u>36</u>	<u>1099</u>			<u>36</u>	<u>1109</u>
P14		<u>39</u>	<u>1099</u>			<u>39</u>	<u>1109</u>
P15		<u>42</u>	<u>1099</u>			<u>42</u>	<u>1109</u>
P16						<u>45</u>	<u>1109</u>
P17						<u>48</u>	<u>1109</u>
P18						<u>51</u>	<u>1109</u>
P19						<u>54</u>	<u>1109</u>
P20						<u>57</u>	<u>1109</u>
						<u>60</u>	<u>1109</u>



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(316) 262-5861

Company Sunburst Exploration Co. Inc. & Claud B. Hamilton Lease & Well No. Shalz "A" #1
Elevation 3407 Kelly Bushing Formation Johnson Effective Pay - Ft. Ticket No. 17003
Date 6/9/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by Terry McLeod Western Representative Clyde Scheffe
Formation Test No. 9 Interval Tested from 4642 ft. to 4718 ft. Total Depth 4940 ft.
Packer Depth 4637 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4642 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4708 ft. Recorder Number 4331 Cap. 4150
Bottom Recorder Depth (Outside) 4711 ft. Recorder Number 1134 Cap. 4500
Below Straddle Recorder Depth 4936 ft. Recorder Number 10979 Cap. 4100
Drilling Contractor Thunderbird Drlg. Rig #1 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 46 Weight Pipe Length 558 I. D. 3.2 in.
Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 4054 I. D. 3.8 in.
Chlorides 79,000 P.P.M. Test Tool Length 30 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 406 Anchor Length 298 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: MISRUN

Recovered 660 ft. of mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: 1

Time Set Packer(s) 12:30 A.M. Time Started Off Bottom 12:40 A.M. Maximum Temperature 124°
Initial Hydrostatic Pressure (A) 2481 P.S.I.
Initial Flow Period Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period Minutes (D) - P.S.I.
Final Flow Period Minutes (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period Minutes (G) - P.S.I.
Final Hydrostatic Pressure (H) 2366 P.S.I.



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Company Sunburst Exploration Co. Inc. & Claud B. Hamill Lease & Well No. Shalz "A" #1
Elevation 3407 Kelly Bushing Formation Johnson Effective Pay - Ft. Ticket No. 17004
Date 6/10/82 Sec. 35 Twp. 9S Range 36W County Thomas State Kansas
Test Approved by Terry McLeod Western Representative Clyde Scheffe

Formation Test No. 10 Interval Tested from 4634 ft. to 4717 ft. Total Depth 4940 ft.

Packer Depth 4629 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4634 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4707 ft. Recorder Number 4331 Cap. 4150

Bottom Recorder Depth (Outside) 4710 ft. Recorder Number 1134 Cap. 4500

Below Straddle Recorder Depth 4936 ft. Recorder Number 10979 Cap. 4100

Drilling Contractor Thunderbird Drlg. Rig #1

Mud Type starch Viscosity 46

Weight 9.5 Water Loss 12.0 cc.

Chlorides 79,000 P.P.M.

Jars: Make WTC Serial Number 406

Did Well Flow? No Reversed Out No

Drill Collar Length - I. D. - in.

Weight Pipe Length 558 I. D. 3.2 in.

Drill Pipe Length 4046 I. D. 3.8 in.

Test Tool Length 30 ft. Tool Size 5 1/2 OD in.

Anchor Length 306 ft. Size 5 1/2 OD in.

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: Initial flow period strong blow ; off bottom of bucket in thirty seconds. Strong blow on final flow period.

Recovered 720 ft. of drilling mud SAMPLE: TOP: 5% water; 95% mud

Recovered 360 ft. of gassy oil cut muddy water MIDDLE : 5% gas; 5% oil; 10% water; 80% mud

Recovered 240 ft. of oil cut muddy water BOTTOM: 15% gas; 15% oil; 20% water; 50% mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Initial flow reading inaccurate due to plugging action

Time Set Packer(s) 5:10 A.M. Time Started Off Bottom 8:10 A.M. Maximum Temperature 124°

Initial Hydrostatic Pressure (A) 2450 P.S.I.

Initial Flow Period Minutes 30 (B) 428 * P.S.I. to (C) 474 * P.S.I.

Initial Closed In Period Minutes 45 (D) 1333 P.S.I.

Final Flow Period Minutes 45 (E) 530 P.S.I. to (F) 603 P.S.I.

Final Closed In Period Minutes 60 (G) 1071 P.S.I.

Final Hydrostatic Pressure (H) 2361 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/10/82 Recorder No. 4331 Capacity 4150 Test Ticket No. 17004
 Location 4704 Ft. 124
 Clock No. --- Elevation 3407 Kelly Bushing Well Temperature 124 °F

Point	Pressure	Time Given	Time Computed
A. Initial Hydrostatic Mud	2450 P.S.I.	5:10A	M
B First Initial Flow Pressure	428 * P.S.I.	30	30 Mins.
C First Final Flow Pressure	474 * P.S.I.	45	45 Mins.
D Initial Closed-in Pressure	1333 P.S.I.	45	45 Mins.
E Second Initial Flow Pressure	530 P.S.I.	60	60 Mins.
F Second Final Flow Pressure	603 P.S.I.		
G Final Closed-in Pressure	1071 P.S.I.		
H Final Hydrostatic Mud	2361 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>15</u> Inc.		Breakdown: <u>9</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 0	428 *	0	484 *	0	530	0	603
P 2 5	428 *	3	938	5	530	3	851
P 3 10	450 *	6	1026	10	530	6	903
P 4 15	450 *	9	1076	15	537	9	933
P 5 20	466 *	12	1108	20	550	12	955
P 6 25	469 *	15	1143	25	565	15	974
P 7 30	474 *	18	1172	30	574	18	989
P 8		21	1200	35	584	21	998
P 9		24	1223	40	594	24	1006
P10		27	1249	45	603	27	1014
P11		30	1266			30	1022
P12		33	1283			33	1030
P13		36	1301			36	1036
P14		39	1315			39	1042
P15		42	1326			42	1046
P16		45	1333			45	1050
P17						48	1054
P18						51	1060
P19						54	1064
P20						57	1068
						60	1071