



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Range Oil Company, Inc. Lease & Well No. Steward B-#1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 21691

Date 11-22-77 Sec. 18 Twp. 33S Range 10W County Barber State Kansas

Test Approved by Ray Goodin Western Representative Rod Tritt

Formation Test No. 1 O.K. Misrun Interval Tested From 4642' to 4660' Total Depth 4660'

Size Main Hole 7 7/8 Rat Hole - Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 4637 Ft. Size 6 1/2 OD Bottom Packer Depth 4642 Ft. Size 6 1/2 OD

Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 18 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4645 Ft. Clock No. 6799 Depth 4648 Ft. Clock No. 6892

Top Make Kuster Cap. 4150 No. 2607 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 3:35P M

Tool Open I.F.P. From 3:35P M. to 4:05 M. - Hr. 30 Min. From (B) 97 P.S.I. To (C) 59 P.S.I.

Tool Closed I.C.I.P. From 4:05 M. to 4:50 M. - Hr. 45 Min (D) 1410 P.S.I.

Tool Open F.F.P. From 4:50 M. to 5:50 M. - Hr. 60 Min. From (E) 84 P.S.I. To (F) 47 P.S.I.

Tool Closed F.C.I.P. From 5:50 M. to 6:50 M. - Hr. 60 Min. (G) 1511 P.S.I.

Initial Hydrostatic Pressure (A) 2399 P.S.I. Final Hydrostatic Pressure (H) 2384 P.S.I. Maximum Temp. 134

INFORMATION

BLOW Light blow to strong blow on initial flow period. Strong blow throughout test on final flow period.

Did Well Flow Yes No Recovery Total Fr. 30' drilling mud, gas to surface one hour and 30 minutes. No oil.

Reversed Out Yes No Mud Type Premix Viscosity 50 Weight 9.2 Water Loss 11.2 cc. Chlorides 34,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes No Did Packers Hold? Yes No Did Tool Plug? No Yes Where? -

DRILLING CONTRACTOR Sweetman Drilling Length Drill Pipe? 4312 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 310 Ft. I.D. Drill Collars 2 1/4 ID In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 38 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 11-22-77

Test Ticket No. 21691

Recorder No. 2607 Capacity 4150

Location 4645 Ft.

Clock No. 6799 Elevation -

Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2399</u> P.S.I.	Open Tool	<u>3:35P</u> M	
B First Initial Flow Pressure	<u>97</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1410</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>84</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>47</u> P.S.I.			
G Final Closed-in Pressure	<u>1511</u> P.S.I.			
H Final Hydrostatic Mud	<u>2384</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: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

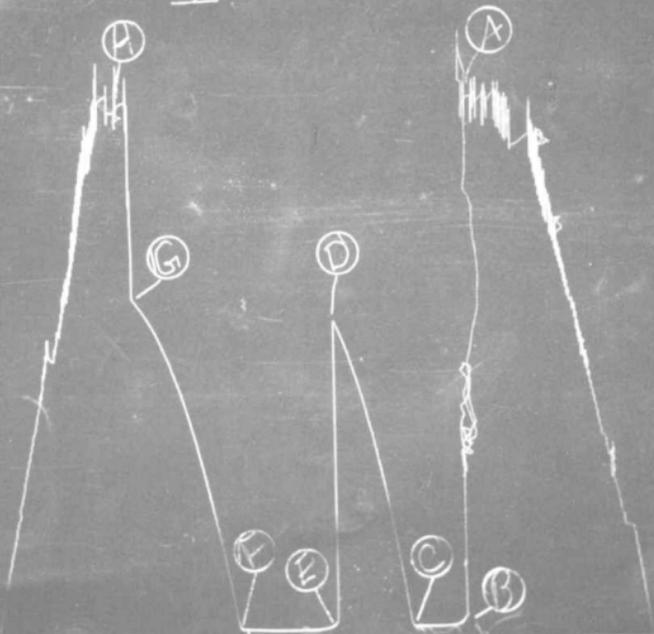
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 22 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>47</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>84</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>	<u>64</u>	<u>3</u>	<u>123</u>	<u>5</u>	<u>53</u>	<u>3</u>	<u>96</u>
P 3 <u>10</u>	<u>59</u>	<u>6</u>	<u>256</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>188</u>
P 4 <u>15</u>	<u>59</u>	<u>9</u>	<u>371</u>	<u>15</u>	<u>43</u>	<u>9</u>	<u>278</u>
P 5 <u>20</u>	<u>59</u>	<u>12</u>	<u>465</u>	<u>20</u>	<u>43</u>	<u>12</u>	<u>369</u>
P 6 <u>25</u>	<u>59</u>	<u>15</u>	<u>556</u>	<u>25</u>	<u>43</u>	<u>15</u>	<u>456</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>644</u>	<u>30</u>	<u>43</u>	<u>18</u>	<u>533</u>
P 8		<u>21</u>	<u>745</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>625</u>
P 9		<u>24</u>	<u>837</u>	<u>40</u>	<u>44</u>	<u>24</u>	<u>711</u>
P10		<u>27</u>	<u>927</u>	<u>45</u>	<u>45</u>	<u>27</u>	<u>806</u>
P11		<u>30</u>	<u>1014</u>	<u>50</u>	<u>46</u>	<u>30</u>	<u>887</u>
P12		<u>33</u>	<u>1095</u>	<u>55</u>	<u>47</u>	<u>33</u>	<u>964</u>
P13		<u>36</u>	<u>1167</u>	<u>60</u>	<u>47</u>	<u>36</u>	<u>1038</u>
P14		<u>39</u>	<u>1233</u>			<u>39</u>	<u>1107</u>
P15		<u>42</u>	<u>1298</u>			<u>42</u>	<u>1163</u>
P16		<u>45</u>	<u>1353</u>			<u>45</u>	<u>1227</u>
P17		<u>48</u>	<u>1410</u>			<u>48</u>	<u>1297</u>
P18						<u>51</u>	<u>1327</u>
P19						<u>54</u>	<u>1371</u>
P20						<u>57</u>	<u>1409</u>
						<u>60</u>	<u>1445</u>
						<u>63</u>	<u>1476</u>
						<u>66</u>	<u>1511</u>

TK4# 21691

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Company Range Oil Company, Inc. Lease & Well No. Stewart B-#1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 21692
 Date 11-23-77 Sec. 16 Twp. 33S Range 10W County Barber State Kansas
 Test Approved by Ray Goodin Western Representative Rod Tritt

Formation Test No. 2 O.K. Misrun Interval Tested From 4660' to 4685' Total Depth 4685'
 Size Main Hole 7 7/8 Bar Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4655 Ft. Size 6 1/2 OD Bottom Packer Depth 4660 Ft. Size 6 1/2 OD
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 25 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4662 Ft. Clock No. 6799 Depth 4665 Ft. Clock No. 6872
 Top Make Kuster Cap. 4150 No. 2607 Inside Outside Bottom Make Kuster Cap. 4000 No. 3351 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 9:35A M
 Tool Open I.F.P. From 9:35A M. to 10:10 M. - Hr. 40 Min. From (B) 153 P.S.I. To (C) 134 P.S.I.
 Tool Closed I.C.I.P. From 10:10 M. to 10:40 M. - Hr. 30 Min (D) 204 P.S.I.
 Tool Open F.F.P. From 10:40 M. to 11:40 M. - Hr. 60 Min. From (E) 181 P.S.I. To (F) 157 P.S.I.
 Tool Closed F.C.I.P. From 11:40 M. to 12:40 P.M. - Hr. 60 Min. (G) 238 P.S.I.
 Initial Hydrostatic Pressure (A) 2399 P.S.I. Final Hydrostatic Pressure (H) 2398 P.S.I. Maximum Temp. 135

INFORMATION

BLOW Slight (weak) blow on initial flow period. Light blow throughout final flow period.
No gas to surface.
 Did Well Flow Yes No Recovery Total Ft. 180' gas cut mud, last 60' specked with oil.

Reversed Out Yes No Mud Type Premix Viscosity 50 Weight 9.2 Water Loss 11.2 cc. Chlorides 34,000 ppm
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size - In. Make - Ser. No. -
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Sweetman Drilling Length Drill Pipe? 4330 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 310 Ft. I.D. Drill Collars 2 1/4 ID In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 45 Ft.

Remarks: Hit bridge 20' off bottom. Worked tool through.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-23-77 Test Ticket No. 21692
 Recorder No. 2607 Capacity 4150 Location 4662 Ft.
 Clock No. 6799 Elevation - Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2399</u> P.S.I.	Open Tool	<u>9:35A</u> M	
B First Initial Flow Pressure	<u>153</u> P.S.I.	First Flow Pressure	<u>40</u> Mins.	<u>40</u> Mins.
C First Final Flow Pressure	<u>134</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>204</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>181</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>157</u> P.S.I.			
G Final Closed-in Pressure	<u>238</u> P.S.I.			
H Final Hydrostatic Mud	<u>2398</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 8 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 9 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

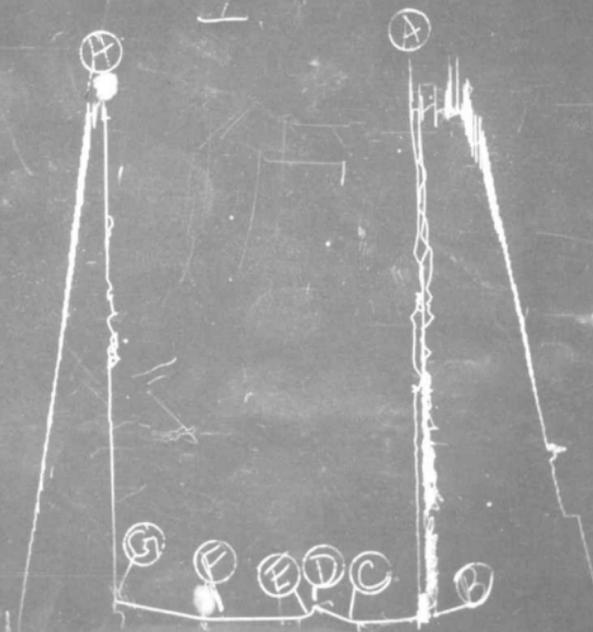
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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>153</u>	<u>0</u>	<u>134</u>	<u>0</u>	<u>181</u>	<u>0</u>	<u>157</u>
P 2 <u>5</u>	<u>144</u>	<u>3</u>	<u>136</u>	<u>5</u>	<u>162</u>	<u>3</u>	<u>158</u>
P 3 <u>10</u>	<u>137</u>	<u>6</u>	<u>143</u>	<u>10</u>	<u>157</u>	<u>6</u>	<u>160</u>
P 4 <u>15</u>	<u>136</u>	<u>9</u>	<u>149</u>	<u>15</u>	<u>157</u>	<u>9</u>	<u>163</u>
P 5 <u>20</u>	<u>135</u>	<u>12</u>	<u>159</u>	<u>20</u>	<u>157</u>	<u>12</u>	<u>167</u>
P 6 <u>25</u>	<u>135</u>	<u>15</u>	<u>168</u>	<u>25</u>	<u>157</u>	<u>15</u>	<u>170</u>
P 7 <u>30</u>	<u>135</u>	<u>18</u>	<u>178</u>	<u>30</u>	<u>157</u>	<u>18</u>	<u>176</u>
P 8 <u>35</u>	<u>134</u>	<u>21</u>	<u>188</u>	<u>35</u>	<u>157</u>	<u>21</u>	<u>181</u>
P 9 <u>40</u>	<u>134</u>	<u>24</u>	<u>197</u>	<u>40</u>	<u>157</u>	<u>24</u>	<u>185</u>
P10		<u>27</u>	<u>204</u>	<u>45</u>	<u>157</u>	<u>27</u>	<u>189</u>
P11				<u>50</u>	<u>157</u>	<u>30</u>	<u>193</u>
P12				<u>55</u>	<u>157</u>	<u>33</u>	<u>199</u>
P13				<u>60</u>	<u>157</u>	<u>36</u>	<u>202</u>
P14						<u>39</u>	<u>206</u>
P15						<u>42</u>	<u>211</u>
P16						<u>45</u>	<u>216</u>
P17						<u>48</u>	<u>220</u>
P18						<u>51</u>	<u>224</u>
P19						<u>54</u>	<u>229</u>
P20						<u>57</u>	<u>234</u>
						<u>60</u>	<u>238</u>

TK# 21692

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Company Range Oil Company, Inc. Lease & Well No. Stewart B-#1
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 21693
 Date 11-26-77 Sec. 16 Twp. 33S Range 11W County Barber State Kansas
 Test Approved by Ray Goodin Western Representative Rod Tritt
 Formation Test No. 3 O.K. Misrun Interval Tested From 4685' to 4715' Total Depth 4715'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 4680 Ft. Size 6 1/2 OD Bottom Packer Depth 4685 Ft. Size 6 1/2 OD
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 30 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 4688 Ft. Clock No. 6799 Depth 4691 Ft. Clock No. 6872
 Top Make Kuster Cap. 4150 No. 2607 ~~Inside~~ Outside Bottom Make Kuster Cap. 4000 No. 3351 ~~Inside~~ Outside
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside

Time Set Packer 10:30P M
 Tool Open I.F.P. From 10:30P M. to 11:00 M. - Hr. 30 Min. From (B) 122 P.S.I. To (C) 98 P.S.I.
 Tool Closed I.C.I.P. From 11:00 M. to 11:45 M. - Hr. 45 Min (D) 159 P.S.I.
 Tool Open F.F.P. From 11:45 M. to 12:45 M. - Hr. 60 Min. From (E) 130 P.S.I. To (F) 101 P.S.I.
 Tool Closed F.C.I.P. From 12:45 M. to 1:45 AM. - Hr. 60 Min. (G) 174 P.S.I.
 Initial Hydrostatic Pressure (A) 2454 P.S.I. Final Hydrostatic Pressure (H) 2444 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Weak blow throughout initial flow period. Moderate blow throughout final flow period.
 Did Well Flow Yes No Recovery Total Ft. 90' drilling mud.

Reversed Out Yes No Mud Type Premix Viscosity 50 Weight 9.3 Water Loss 11.2 cc. Chlorides 34,000 pp,
 EXTRA EQUIPMENT: Type Circ. Sub. Pin - Safety Joint - Jars: Size - In. Make - Ser. No. -
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
 DRILLING CONTRACTOR Sweetman Drilling Co. Length Drill Pipe? 4349 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 316 Ft. I.D. Drill Collars 2 1/4 ID In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 50 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 11-26-77 Test Ticket No. 21693
 Recorder No. 2607 Capacity 4150 Location 4688 Ft.
 Clock No. 6799 Elevation - Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2454</u> P.S.I.	Open Tool	<u>10:30P</u> M	
B First Initial Flow Pressure	<u>122</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>98</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>159</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>130</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>101</u> P.S.I.			
G Final Closed-in Pressure	<u>174</u> P.S.I.			
H Final Hydrostatic Mud	<u>2444</u> P.S.I.			

PRESSURE BREAKDOWN

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

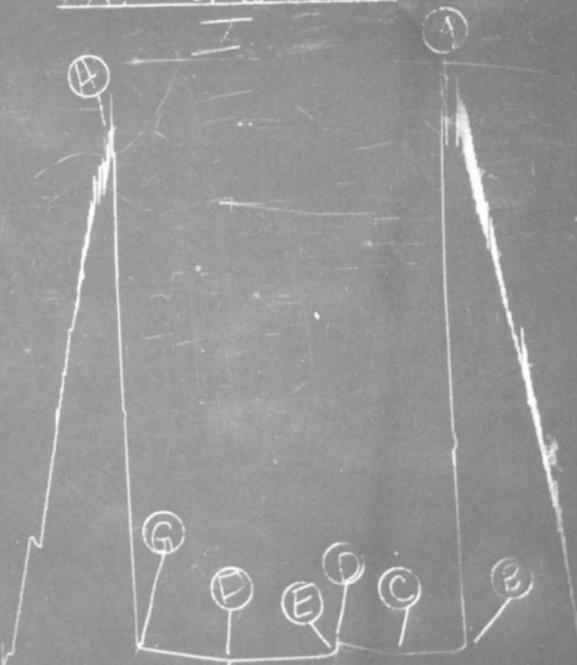
Initial Shut-In
 Breakdown: 16 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 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>122</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>130</u>	<u>0</u>	<u>101</u>
P 2	<u>5</u>	<u>102</u>	<u>3</u>	<u>97</u>	<u>5</u>	<u>107</u>	<u>3</u>	<u>102</u>
P 3	<u>10</u>	<u>99</u>	<u>6</u>	<u>97</u>	<u>10</u>	<u>101</u>	<u>6</u>	<u>105</u>
P 4	<u>15</u>	<u>99</u>	<u>9</u>	<u>97</u>	<u>15</u>	<u>101</u>	<u>9</u>	<u>107</u>
P 5	<u>20</u>	<u>99</u>	<u>12</u>	<u>98</u>	<u>20</u>	<u>101</u>	<u>12</u>	<u>110</u>
P 6	<u>25</u>	<u>99</u>	<u>15</u>	<u>99</u>	<u>25</u>	<u>101</u>	<u>15</u>	<u>113</u>
P 7	<u>30</u>	<u>98</u>	<u>18</u>	<u>102</u>	<u>30</u>	<u>101</u>	<u>18</u>	<u>117</u>
P 8			<u>21</u>	<u>109</u>	<u>35</u>	<u>101</u>	<u>21</u>	<u>119</u>
P 9			<u>24</u>	<u>114</u>	<u>40</u>	<u>101</u>	<u>24</u>	<u>124</u>
P10			<u>27</u>	<u>118</u>	<u>45</u>	<u>101</u>	<u>27</u>	<u>128</u>
P11			<u>30</u>	<u>125</u>	<u>50</u>	<u>101</u>	<u>30</u>	<u>131</u>
P12			<u>33</u>	<u>130</u>	<u>55</u>	<u>101</u>	<u>33</u>	<u>136</u>
P13			<u>36</u>	<u>135</u>	<u>60</u>	<u>101</u>	<u>36</u>	<u>141</u>
P14			<u>39</u>	<u>142</u>			<u>39</u>	<u>144</u>
P15			<u>42</u>	<u>148</u>			<u>42</u>	<u>147</u>
P16			<u>45</u>	<u>153</u>			<u>45</u>	<u>152</u>
P17			<u>48</u>	<u>159</u>			<u>48</u>	<u>155</u>
P18							<u>51</u>	<u>159</u>
P19							<u>54</u>	<u>163</u>
P20							<u>57</u>	<u>168</u>
							<u>60</u>	<u>174</u>

TK# 21693





Home Office: Wichita, Kansas 67201
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Company Sun Range Resources Lease & Well No. Stewart #1-B

Elevation 1611 Kelly Bush. Formation Simpson Effective Pay - Ft. Ticket No. 22505

Date 11-28-77 Sec. 18 Twp. 33S Range 10W County Barber State Kansas

Test Approved by Ray Goodin Western Representative Tim Wilson

Formation Test No. 4 O.K. Misrun Interval Tested From 5069' to 5099' Total Depth 5099'

Size Main Hole 7-7/8 Bar Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No

Top Packer Depth 5064 Ft. Size 6-3/4 Bottom Packer Depth 5069 Ft. Size 6-3/4

Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 30 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5092 Ft. Clock No. 9103 Depth 5095 Ft. Clock No. 9727

Top Make Kuster Cap. 3150 No. 1562 ^{Inside} ~~Outside~~ Bottom Make Kuster Cap. 3200 No. 1561 ^{Inside} ~~Outside~~

Below Straddle: Depth Rec. No. Clock No. ^{Inside} ~~Outside~~ Depth Ft. Rec. No. Clock No. ^{Inside} ~~Outside~~

Time Set Packer 4:07 A M

Tool Open I.F.P. From 4:10 M. to 4:40 M. - Hr. 30 Min. From (B) 52 P.S.I. To (C) 74 P.S.I.

Tool Closed I.C.I.P. From 4:40 M. to 5:25 M. - Hr. 45 Min (D) 1872 P.S.I.

Tool Open F.F.P. From 5:25 M. to 6:25 M. - Hr. 60 Min. From (E) 98 P.S.I. To (F) 131 P.S.I.

Tool Closed F.C.I.P. From 6:25 M. to 7:25A M. - Hr. 60 Min. (G) 1821 P.S.I.

Initial Hydrostatic Pressure (A) 2594 P.S.I. Final Hydrostatic Pressure (H) 2582 P.S.I. Maximum Temp. 134°

INFORMATION

BLOW Very weak decreasing slightly at end of test.

Did Well Flow Yes No Recovery Total Ft. 210' Total Recovery 30' Drilling Mud with rainbow.

60' Oil & Gas Cut Mud 120' Oil & Gas Cut Muddy Water

3% Oil (70,000 Chlorides)

Reversed Out Yes No Mud Type Starch Viscosity 60 Weight 9.5 Water Loss 17.6 cc. Chlorides 28,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR Sweetman #1 Length Drill Pipe? 4768 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 282 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 49 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 11-28-77 Test Ticket No. 22505
 Recorder No. 1562 Capacity 3150 Location 5092 Ft.
 Clock No. 9103 Elevation 1611 Kelly Bushing Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2594</u> P.S.I.	Open Tool	<u>4:07A</u>	<u>M</u>
B First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>74</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1872</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>98</u> P.S.I.	Final Closed-in Pressure	<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>1821</u> P.S.I.			
H Final Hydrostatic Mud	<u>2582</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>52</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>98</u>	<u>0</u>	<u>131</u>	<u>0</u>
P 2	<u>46</u>	<u>3</u>	<u>149</u>	<u>3</u>	<u>89</u>	<u>3</u>	<u>181</u>	<u>3</u>
P 3	<u>49</u>	<u>6</u>	<u>502</u>	<u>6</u>	<u>89</u>	<u>6</u>	<u>315</u>	<u>6</u>
P 4	<u>66</u>	<u>9</u>	<u>1658</u>	<u>9</u>	<u>91</u>	<u>9</u>	<u>600</u>	<u>9</u>
P 5	<u>72</u>	<u>12</u>	<u>1740</u>	<u>12</u>	<u>96</u>	<u>12</u>	<u>1526</u>	<u>12</u>
P 6	<u>68</u>	<u>15</u>	<u>1774</u>	<u>15</u>	<u>99</u>	<u>15</u>	<u>1646</u>	<u>15</u>
P 7	<u>74</u>	<u>18</u>	<u>1799</u>	<u>18</u>	<u>104</u>	<u>18</u>	<u>1687</u>	<u>18</u>
P 8		<u>21</u>	<u>1815</u>	<u>21</u>	<u>110</u>	<u>21</u>	<u>1714</u>	<u>21</u>
P 9		<u>24</u>	<u>1828</u>	<u>24</u>	<u>115</u>	<u>24</u>	<u>1731</u>	<u>24</u>
P10		<u>27</u>	<u>1838</u>	<u>27</u>	<u>120</u>	<u>27</u>	<u>1745</u>	<u>27</u>
P11		<u>30</u>	<u>1847</u>	<u>30</u>	<u>124</u>	<u>30</u>	<u>1758</u>	<u>30</u>
P12		<u>33</u>	<u>1855</u>	<u>33</u>	<u>129</u>	<u>33</u>	<u>1767</u>	<u>33</u>
P13		<u>36</u>	<u>1862</u>	<u>36</u>	<u>131</u>	<u>36</u>	<u>1776</u>	<u>36</u>
P14		<u>39</u>	<u>1868</u>	<u>39</u>		<u>39</u>	<u>1784</u>	<u>39</u>
P15		<u>42</u>	<u>1872</u>	<u>42</u>		<u>42</u>	<u>1792</u>	<u>42</u>
P16						<u>45</u>	<u>1798</u>	<u>45</u>
P17						<u>48</u>	<u>1804</u>	<u>48</u>
P18						<u>51</u>	<u>1809</u>	<u>51</u>
P19						<u>54</u>	<u>1814</u>	<u>54</u>
P20						<u>57</u>	<u>1818</u>	<u>57</u>
						<u>60</u>	<u>1821</u>	<u>60</u>

TR# 22505

I.

