

Company Zorger Petroleum Company Lease & Well No. #1 Woodson
 Elevation 1619 Ground Level Formation Mississippi Effective Pay -- Ft. Ticket No. 17603
 Date 12/14/82 Sec. 5 Twp. 29S Range 7W County Kingman State Kansas
 Test Approved by Gerald W. Zorger Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 4107 ft. to 4120 ft. Total Depth 4120 ft.
 Packer Depth 4102 ft. Size 6 5/8 in. Packer Depth 4107 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) 4110 ft. Recorder Number 11018 Cap. 4425
 Bottom Recorder Depth (Outside) 4113 ft. Recorder Number 13240 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Drlg. Rig #9 Drill Collar Length 340 I. D. 2.7 in.
 Mud Type chemical Viscosity 45 Weight Pipe Length -- I. D. - in.
 Weight 9.5 Water Loss 14.4 cc. Drill Pipe Length 3752 I. D. 3.8 in.
 Chlorides 22,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 13 ft. Size 5 1/2 OD 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 XH in.

Blow: Strong throughout initial flow period. Gas to surface in ten minutes on final flow period - too small to gauge.

Recovered 170 ft. of gas cut mud
 Recovered 120 ft. of slightly oil and gas cut mud
 Recovered 60 ft. of slightly oil and gas cut muddy water
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:43 ~~A.M.~~ P.M. Time Started Off Bottom 1:45 ~~A.M.~~ P.M. Maximum Temperature 126°
 Initial Hydrostatic Pressure 2064 P.S.I. (A)
 Initial Flow Period 60 Minutes (B) 56 P.S.I. to (C) 160 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1266 P.S.I.
 Final Flow Period 65 Minutes (E) 119 P.S.I. to (F) 157 P.S.I.
 Final Closed In Period 51 Minutes (G) 1207 P.S.I.
 Final Hydrostatic Pressure 2064 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 12/14/82 Test Ticket No. 17603
 Recorder No. 11018 Capacity 4425 Location 4110 Ft.
 Clock No. --- Elevation 1619 Ground Level Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2064</u> P.S.I.	Open Tool	<u>9:43P</u>	<u>M</u>
B First Initial Flow Pressure	<u>56</u> P.S.I.	First Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
C First Final Flow Pressure	<u>160</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1266</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>119</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>51</u> Mins.
F Second Final Flow Pressure	<u>157</u> P.S.I.			
G Final Closed-in Pressure	<u>1207</u> P.S.I.			
H Final Hydrostatic Mud	<u>2064</u> P.S.I.			

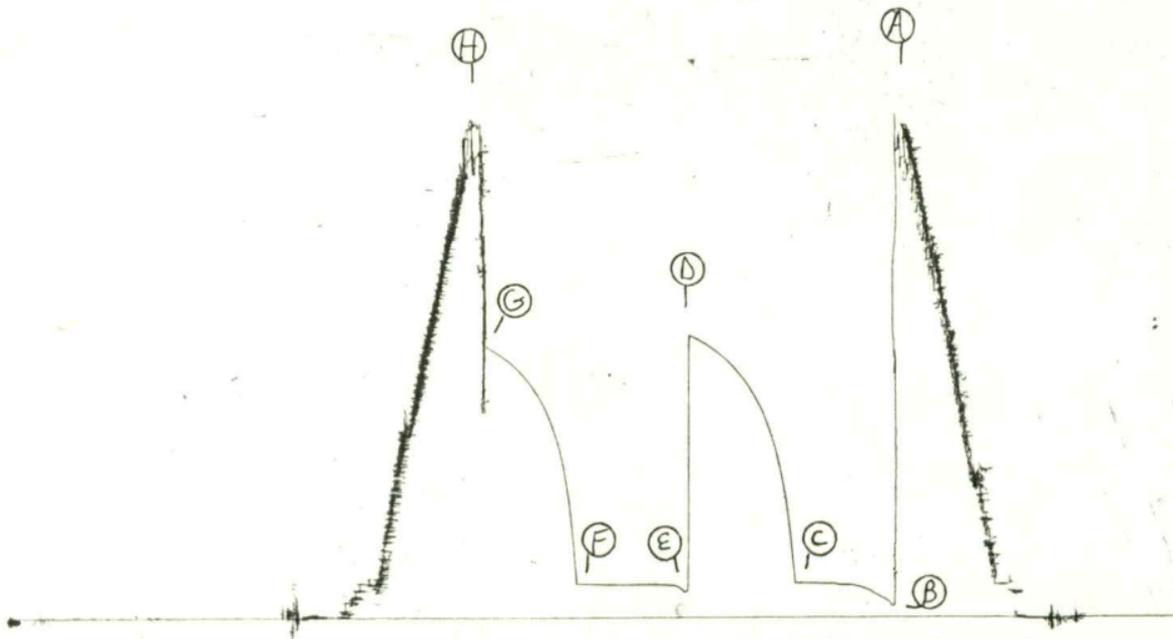
PRESSURE BREAKDOWN

Point	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Mins.	Press.	Minutes	Press.	Minutes	Press.	Minutes	Press.
	Breakdown: <u>12</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>13</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
P 1	<u>0</u>	<u>56</u>	<u>0</u>	<u>160</u>	<u>0</u>	<u>119</u>	<u>0</u>	<u>157</u>
P 2	<u>5</u>	<u>87</u>	<u>3</u>	<u>527</u>	<u>5</u>	<u>142</u>	<u>3</u>	<u>475</u>
P 3	<u>10</u>	<u>107</u>	<u>6</u>	<u>646</u>	<u>10</u>	<u>151</u>	<u>6</u>	<u>633</u>
P 4	<u>15</u>	<u>129</u>	<u>9</u>	<u>743</u>	<u>15</u>	<u>153</u>	<u>9</u>	<u>741</u>
P 5	<u>20</u>	<u>144</u>	<u>12</u>	<u>821</u>	<u>20</u>	<u>154</u>	<u>12</u>	<u>823</u>
P 6	<u>25</u>	<u>151</u>	<u>15</u>	<u>887</u>	<u>25</u>	<u>155</u>	<u>15</u>	<u>889</u>
P 7	<u>30</u>	<u>152</u>	<u>18</u>	<u>943</u>	<u>30</u>	<u>156</u>	<u>18</u>	<u>944</u>
P 8	<u>35</u>	<u>154</u>	<u>21</u>	<u>987</u>	<u>35</u>	<u>157</u>	<u>21</u>	<u>986</u>
P 9	<u>40</u>	<u>156</u>	<u>24</u>	<u>1029</u>	<u>40</u>	<u>157</u>	<u>24</u>	<u>1020</u>
P10	<u>45</u>	<u>158</u>	<u>27</u>	<u>1063</u>	<u>45</u>	<u>157</u>	<u>27</u>	<u>1054</u>
P11	<u>50</u>	<u>159</u>	<u>30</u>	<u>1092</u>	<u>50</u>	<u>157</u>	<u>30</u>	<u>1084</u>
P12	<u>55</u>	<u>160</u>	<u>33</u>	<u>1118</u>	<u>55</u>	<u>157</u>	<u>33</u>	<u>1109</u>
P13	<u>60</u>	<u>160</u>	<u>36</u>	<u>1141</u>	<u>60</u>	<u>157</u>	<u>36</u>	<u>1128</u>
P14			<u>39</u>	<u>1163</u>	<u>65</u>	<u>157</u>	<u>39</u>	<u>1148</u>
P15			<u>42</u>	<u>1182</u>			<u>42</u>	<u>1165</u>
P16			<u>45</u>	<u>1202</u>			<u>45</u>	<u>1182</u>
P17			<u>48</u>	<u>1215</u>			<u>48</u>	<u>1196</u>
P18			<u>51</u>	<u>1228</u>			<u>51</u>	<u>1207</u>
P19			<u>54</u>	<u>1241</u>				
P20			<u>57</u>	<u>1254</u>				
			<u>60</u>	<u>1266</u>				

TKT # 17603

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Company Zorger Petroleum Company Lease & Well No. #1 Woodson
 Elevation 1619 Ground Level Formation -- Effective Pay - Ft. Ticket No. 17317
 Date 12/15/82 Sec. 5 Twp. 29S Range 7W County Kingman State Kansas
 Test Approved by Steve Zink Western Representative Dan Delaney

Formation Test No. 2 Interval Tested from 4492 ft. to 4502 ft. Total Depth 4502 ft.
 Packer Depth 4492 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4494 ft. Recorder Number 6234 Cap. 4500
 Bottom Recorder Depth (Outside) 4498 ft. Recorder Number 6077 Cap. 4700
 Below Straddle Recorder Depth - ft. Recorder Number -- Cap. -

Drilling Contractor White & Ellis Drlg. Drill Collar Length 337 I. D. 2.2 in.

Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 20 cc. Drill Pipe Length 4139 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 16 ft. Tool Size 4 1/2 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Initial flow period weak blow building to a strong blow in three minutes. Weak blow building to a strong blow in six minutes on final flow period.

Recovered 3470 ft. of salt water Chlorides 45,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:10 ~~A.M.~~ P.M. Time Started Off Bottom 11:10 ~~A.M.~~ P.M. Maximum Temperature 127°

Initial Hydrostatic Pressure (A) 2276 P.S.I.
 Initial Flow Period Minutes 60 (B) 165 P.S.I. to (C) 1364 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1577 P.S.I.
 Final Flow Period Minutes 60 (E) 1404 P.S.I. to (F) 1584 P.S.I.
 Final Closed In Period Minutes 60 (G) 1586 P.S.I.
 Final Hydrostatic Pressure (H) 2271 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/15/82 Recorder No. 6234 Capacity 4500 Test Ticket No. 17317
 Location 4494 Ft. 127
 Clock No. --- Elevation 1619 Ground Level Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2276	P.S.I.	7:10P	M
B First Initial Flow Pressure	165	P.S.I.	60	Mins. 60 Mins.
C First Final Flow Pressure	1364	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1577	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	1404	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	1584	P.S.I.		
G Final Closed-in Pressure	1586	P.S.I.		
H Final Hydrostatic Mud	2271	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</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	165	0	1364	0	1404	0	1584
P 2	5	342	3	1570	5	1429	3	1585
P 3	10	477	6	1576	10	1467	6	1586
P 4	15	600	9	1577	15	1500	9	1586
P 5	20	716	12	1577	20	1525	12	1586
P 6	25	821	15	1577	25	1545	15	1586
P 7	30	916	18	1577	30	1561	18	1586
P 8	35	1009	21	1577	35	1571	21	1586
P 9	40	1095	24	1577	40	1578	24	1586
P10	45	1165	27	1577	45	1580	27	1586
P11	50	1235	30	1577	50	1582	30	1586
P12	55	1301	33	1577	55	1583	33	1586
P13	60	1364	36	1577	60	1584	36	1586
P14			39	1577			39	1586
P15			42	1577			42	1586
P16			45	1577			45	1586
P17			48	1577			48	1586
P18			51	1577			51	1586
P19			54	1577			54	1586
P20			57	1577			57	1586
			60	1577			60	1586

TKT. # 17317

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