

Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Klaver #5

Elevation -- Formation Lansing Effective Pay ---- Ft. Ticket No. 5314

Date 1/16/80 Sec. 9 Twp 29S Range 6W County Kingman State Kansas

Test Approved by Innes Phillips Western Representative Stuart Stover

Formation Test No. 1 Interval Tested from 3278 ft. to 3300 ft. Total Depth 3300 ft.

Packer Depth 3273 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.

Packer Depth 3278 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3297 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 3300 ft. Recorder Number 11019 Cap. 4500

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

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

Mud Type premix Viscosity 33 Weight Pipe Length 383 I. D. 3.0 in.

Weight 9.0 Water Loss 36.6 cc. Drill Pipe Length 2874 I. D. 4.0 in.

Chlorides 31,000 P.P.M. Test Tool Length 21 ft. Tool Size 3 1/2 in.

Jars: Make -- Serial Number - Anchor Length 22 ft. Size 4 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: First flow good blow throughout. Second flow good blow decreasing/

Recovered 90 ft. of heavy oil cut mud

Recovered 240 ft. of muddy oil 70% oil;30% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Tool plugged on second flow period. Slid tool five feet to bottom.
Bottom recorder failed to record.

Time Set Packer(s) 3:00 ~~PM~~ A.M. Time Started Off Bottom 5:45 ~~PM~~ A.M. Maximum Temperature 106°

Initial Hydrostatic Pressure 1588 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 100 P.S.I. to (C) 173 P.S.I.

Initial Closed In Period 45 Minutes (D) 1117 P.S.I.

Final Flow Period 30 Minutes (E) Plugging Action P.S.I. to (F) 1101 P.S.I.

Final Closed In Period 60 Minutes (G) 1176 P.S.I.

Final Hydrostatic Pressure 1573 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 1/16/80 Test Ticket No. 5314
 Recorder No. 11018 Capacity 4425 Location 3297 Ft.
 Clock No. --- Elevation -- Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1588</u> P.S.I.	Open Tool	<u>3:00A</u> M	
B First Initial Flow Pressure	<u>100</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>173</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1117</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u> </u> Mins.
E Second Initial Flow Pressure	<u>Plugging Action</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1101</u> P.S.I.			
G Final Closed-in Pressure	<u>1176</u> P.S.I.			
H Final Hydrostatic Mud	<u>1573</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>100</u>	<u>0</u>	<u>173</u>	<u>0</u>	<u>Plugging Action</u>	<u>0</u>	<u>1101</u>
P 2 <u>5</u>	<u>Plugging action</u>	<u>3</u>	<u>100</u>	<u>5</u>	<u>Plugging Action</u>	<u>3</u>	<u>1137</u>
P 3 <u>10</u>	<u>Plugging action</u>	<u>6</u>	<u>1022</u>	<u>10</u>	<u>Plugging Action</u>	<u>6</u>	<u>1143</u>
P 4 <u>15</u>	<u>Plugging action</u>	<u>9</u>	<u>1037</u>	<u>15</u>	<u>Plugging Action</u>	<u>9</u>	<u>1145</u>
P 5 <u>20</u>	<u>Plugging action</u>	<u>12</u>	<u>1051</u>	<u>20</u>	<u>Plugging Action</u>	<u>12</u>	<u>1148</u>
P 6 <u>25</u>	<u>Plugging action</u>	<u>15</u>	<u>1059</u>	<u>25</u>	<u>Plugging Action</u>	<u>15</u>	<u>1151</u>
P 7 <u>30</u>	<u>173</u>	<u>18</u>	<u>1068</u>	<u>30</u>	<u>Plugging Action</u>	<u>18</u>	<u>1153</u>
P 8		<u>21</u>	<u>1077</u>			<u>21</u>	<u>1154</u>
P 9		<u>24</u>	<u>1084</u>			<u>24</u>	<u>1156</u>
P10		<u>27</u>	<u>1092</u>			<u>27</u>	<u>1158</u>
P11		<u>30</u>	<u>1097</u>			<u>30</u>	<u>1160</u>
P12		<u>33</u>	<u>1101</u>			<u>33</u>	<u>1162</u>
P13		<u>36</u>	<u>1105</u>			<u>36</u>	<u>1164</u>
P14		<u>39</u>	<u>1109</u>			<u>39</u>	<u>1166</u>
P15		<u>42</u>	<u>1113</u>			<u>42</u>	<u>1167</u>
P16		<u>45</u>	<u>1117</u>			<u>45</u>	<u>1168</u>
P17						<u>48</u>	<u>1169</u>
P18						<u>51</u>	<u>1170</u>
P19						<u>54</u>	<u>1172</u>
P20						<u>57</u>	<u>1174</u>
						<u>60</u>	<u>1176</u>

TRC# 5314
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