

Robert E. Campbell Oil & Gas Operations

Klaver #6

Company _____ Lease & Well No. _____
Elevation -- Formation Lansing Effective Pay --- Ft. Ticket No. 5584
Date 2/5/80 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas²
Test Approved by Calvin Noah Western Representative Dave Sloan

Formation Test No. 1 Interval Tested from 3288 ft. to 3305 ft. Total Depth 3305 ft.
Packer Depth 3283 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4388 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3297 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 3300 ft. Recorder Number 6246 Cap. 5200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Eagle Drilling Rig #1 Drill Collar Length -- I. D. - in.
Mud Type premix Viscosity 29 Weight Pipe Length 350 I. D. 3.2 in.
Weight 9.5 Water Loss -- cc. Drill Pipe Length 2918 I. D. 2.2 in.
Chlorides 29,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make -- Serial Number - Anchor Length 17 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 decreasing to moderate blow during final flow period.

Recovered 390 ft. of mud cut water chlorides 123,000 ppm
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

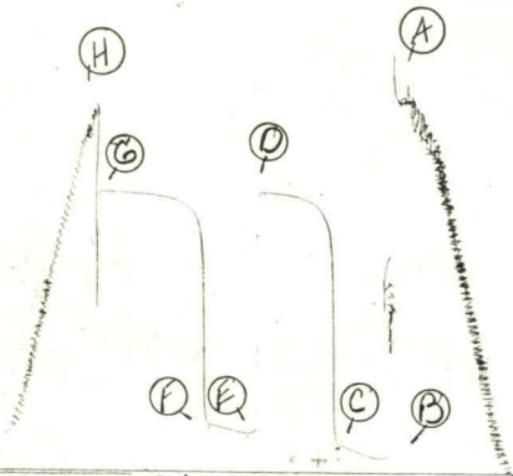
Remarks:

Time Set Packer(s) 10:10 ~~==P.M.==~~ ^{A.M.} Time Started Off Bottom 12:55 ~~P.M.~~ ^{A.M.} Maximum Temperature 115°
Initial Hydrostatic Pressure (A) 1618 P.S.I.
Initial Flow Period Minutes 30 (B) 64 P.S.I. to (C) 130 P.S.I.
Initial Closed In Period Minutes 45 (D) 1215 P.S.I.
Final Flow Period Minutes 30 (E) 175 P.S.I. to (F) 213 P.S.I.
Final Closed In Period Minutes 60 (G) 1215 P.S.I.
Final Hydrostatic Pressure (H) 1586 P.S.I.

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R. Campbell
Klaver 46
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TKT # 5584
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Robert E. Campbell Oil & Gas Operations

Klaver #6

Company _____ Well No. _____

Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 5586

Date 2/7/80 Sec. 9 Twp 29S Range 6W County Kingman State Kansas

Test Approved by Calvin Noah Western Representative Dave Sloan

Formation Test No. 2 Interval Tested from 4096 ft. to 4132 ft. Total Depth 4132 ft.

Packer Depth 4091 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4096 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4101 ft. Recorder Number 2604 Cap. 4150

Bottom Recorder Depth (Outside) 4104 ft. Recorder Number 6246 Cap. 5200

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

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

Mud Type Mon - Pac Viscosity 43 Weight Pipe Length 350 I. D. 3.2 in.

Weight 9.3 Water Loss 9.5 cc. Drill Pipe Length 3726 I. D. 3.8 in.

Chlorides 18,000 P.P.M. Test Tool Length 20 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: Strong. Gas to surface six minutes on initial flow period. See attached sheet for gas measurements.

Recovered 240 ft. of gassy oil water & cut mud (15% gas; 10% oil; 30% water; 45% mud)

Recovered 240 ft. of gas and oil cut water (5% gas; 25% oil; 65% water; 5% mud)

Recovered 40 ft. of oil cut water Chlorides 86,000 ppm

Recovered ft. of -

Recovered ft. of -

Remarks: Tool out of sequence. Did not close for initial closed period. Extended Initial Flow and then closed tool. Final closed - in period.

Time Set Packer(s) 9:10 ~~AM~~ P.M. Time Started Off Bottom 12:10 ~~AM~~ P.M. Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 1979 P.S.I.

Initial Flow Period Minutes 80 (B) 117 P.S.I. to (C) 207 P.S.I.

Initial Closed In Period Minutes 102 (D) 1348 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) 1975 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/7/80 Test Ticket No. 5586
 Recorder No. 2604 Capacity 4150 Location 4101 Ft.
 Clock No. ----- Elevation ----- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1979</u> P.S.I.	Open Tool	<u>9:10P</u> M	
B First Initial Flow Pressure	<u>117</u> P.S.I.	First Flow Pressure	<u>80</u> Mins.	<u>80</u> Mins.
C First Final Flow Pressure	<u>207</u> P.S.I.	Initial Closed-in Pressure	<u>100</u> Mins.	<u>102</u> Mins.
D Initial Closed-in Pressure	<u>1348</u> P.S.I.	Second Flow Pressure	<u>--</u> Mins.	<u>-----</u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>-----</u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>1975</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 16 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 34 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 0 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>117</u>	<u>0</u>	<u>207</u>				
P 2 <u>5</u>	<u>113</u>	<u>3</u>	<u>307</u>				
P 3 <u>10</u>	<u>113</u>	<u>6</u>	<u>770</u>				
P 4 <u>15</u>	<u>115</u>	<u>9</u>	<u>1015</u>				
P 5 <u>20</u>	<u>121</u>	<u>12</u>	<u>1102</u>				
P 6 <u>25</u>	<u>132</u>	<u>15</u>	<u>1155</u>				
P 7 <u>30</u>	<u>145</u>	<u>18</u>	<u>1182</u>				
P 8 <u>35</u>	<u>153</u>	<u>21</u>	<u>1207</u>				
P 9 <u>40</u>	<u>160</u>	<u>24</u>	<u>1228</u>				
P10 <u>45</u>	<u>166</u>	<u>27</u>	<u>1245</u>				
P11 <u>50</u>	<u>172</u>	<u>30</u>	<u>1258</u>				
P12 <u>55</u>	<u>178</u>	<u>33</u>	<u>1268</u>				
P13 <u>60</u>	<u>183</u>	<u>36</u>	<u>1278</u>				
P14 <u>65</u>	<u>189</u>	<u>39</u>	<u>1284</u>				
P15 <u>70</u>	<u>195</u>	<u>42</u>	<u>1293</u>				
P16 <u>75</u>	<u>200</u>	<u>45</u>	<u>1298</u>				
P17 <u>80</u>	<u>207</u>	<u>48</u>	<u>1303</u>				
P18 <u>-----</u>		<u>51</u>	<u>1307</u>				
P19 <u>-----</u>		<u>54</u>	<u>1311</u>				
P20 <u>-----</u>		<u>57</u>	<u>1316</u>				

WESTERN TESTING CO., INC.
Pressure Data

Date 2/7/80 Test Ticket No. 5586
 Recorder No. 2604 Capacity 4150 Location 4101 Ft.
 Clock No. ----- Elevation ----- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1979</u> P.S.I.	Open Tool	<u>9:10P</u> M	
B First Initial Flow Pressure	<u>117</u> P.S.I.	First Flow Pressure	<u>80</u> Mins.	<u>80</u> Mins.
C First Final Flow Pressure	<u>207</u> P.S.I.	Initial Closed-in Pressure	<u>100</u> Mins.	<u>102</u> Mins.
D Initial Closed-in Pressure	<u>1348</u> P.S.I.	Second Flow Pressure	<u>--</u> Mins.	<u>--</u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>1975</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>16</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>34</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>0</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>0</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1		<u>63</u>	<u>1324</u>					
P 2		<u>66</u>	<u>1326</u>					
P 3		<u>69</u>	<u>1329</u>					
P 4		<u>72</u>	<u>1330</u>					
P 5		<u>75</u>	<u>1332</u>					
P 6		<u>78</u>	<u>1333</u>					
P 7		<u>81</u>	<u>1335</u>					
P 8		<u>84</u>	<u>1337</u>					
P 9		<u>87</u>	<u>1339</u>					
P10		<u>90</u>	<u>1342</u>					
P11		<u>93</u>	<u>1344</u>					
P12		<u>96</u>	<u>1346</u>					
P13		<u>99</u>	<u>1347</u>					
P14		<u>102</u>	<u>1348</u>					
P15								
P16								
P17								
P18								
P19								
P20								

Robert E. Campbell Oil & Gas Operations

Klaver #6

Company --- Lease & Well No. ---
 Elevation --- Formation Meisner Effective Pay --- Ft. Ticket No. 5587
 Date 2/9/80 Sec. 9 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Calvin Noah Western Representative Dave Sloan

Formation Test No. 3 Interval Tested from 4430 ft. to 4485 ft. Total Depth 4485 ft.
 Packer Depth 4425 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4430 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4443 ft. Recorder Number 2604 Cap. 4150
 Bottom Recorder Depth (Outside) 4446 ft. Recorder Number 6246 Cap. 5200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Eagle Drilling Rig #1 Drill Collar Length -- I. D. - in.
 Mud Type Mon-Pac Viscosity 45 Weight Pipe Length 350 I. D. 3.2 in.
 Weight 9.0 Water Loss 10.0 cc. Drill Pipe Length 4060 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make -- Serial Number - Anchor Length 31' DC + 24 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. Gas to surface eight minutes on final flow period. See attached sheet for gas measurements.

Recovered 120 ft. of gas and oil cut mud (25% gas; 20% oil; 50% mud; 5% water)
 Recovered 280 ft. of gas cut oil (5% gas; 90% oil; 3% mud; 2% water)
 Recovered 60 ft. of gas and water cut oil (12% gas; 60% oil; 3% mud; 25% water)
 Recovered 20 ft. of water
 Recovered ft. of chlorides 44,000 ppm

Remarks: _____

Time Set Packer(s) 1:45 ~~A.M.~~ P.M. Time Started Off Bottom 4:45 ~~A.M.~~ P.M. Maximum Temperature 128°
 Initial Hydrostatic Pressure (A) 2086 P.S.I.
 Initial Flow Period Minutes 30 (B) 72 P.S.I. to (C) 117 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1280 P.S.I.
 Final Flow Period Minutes 45 (E) 147 P.S.I. to (F) 185 P.S.I.
 Final Closed In Period Minutes 60 (G) 1280 P.S.I.
 Final Hydrostatic Pressure (H) 2179 P.S.I.

GAS FLOW REPORT

Date 2/9/80 Ticket 5587 Company Robert E. Campbell Oil & Gas Operations
 Well Name and No. Klaver #6 Dst No. 3 Interval Tested 4430' - 4485'
 County Kingman State Kansas Sec. 9 Twp. 29S Rg. 6W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						

SECOND FLOW					
Gas to surface eight minutes.					
10 min.	14"	of water	1/4"	orifice	6,330 CFPD
20 min.	18"	of water	1/4"	orifice	7,120 CFPD
30 min.	24"	of water	1/4"	orifice	8,220 CFPD
40 min.	22"	of water	1/4"	orifice	7,880 CFPD
45 min.	22"	of water	1/4"	orifice	7,880 CFPD

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 2/9/80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Robert E. Campbell Oil & Gas
 COMPANY'S NAME Operations
 Authorized by Calvin Noah

WESTERN TESTING CO., INC.

Pressure Data

Date 2/9/80 Test Ticket No. 5587
 Recorder No. 2604 Capacity 4150 Location 4443 Ft.
 Clock No. ----- Elevation ----- Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2086</u> P.S.I.	Open Tool	<u>1:45P</u>	<u>M</u>
B First Initial Flow Pressure	<u>72</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>117</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1280</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>147</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>185</u> P.S.I.			
G Final Closed-in Pressure	<u>1280</u> P.S.I.			
H Final Hydrostatic Mud	<u>2179</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: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 9 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>72</u>	<u>0</u>	<u>117</u>	<u>0</u>	<u>147</u>	<u>0</u>	<u>185</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>138</u>	<u>5</u>	<u>147</u>	<u>3</u>	<u>226</u>
P 3 <u>10</u>	<u>81</u>	<u>6</u>	<u>203</u>	<u>10</u>	<u>149</u>	<u>6</u>	<u>344</u>
P 4 <u>15</u>	<u>92</u>	<u>9</u>	<u>307</u>	<u>15</u>	<u>155</u>	<u>9</u>	<u>527</u>
P 5 <u>20</u>	<u>104</u>	<u>12</u>	<u>466</u>	<u>20</u>	<u>160</u>	<u>12</u>	<u>779</u>
P 6 <u>25</u>	<u>113</u>	<u>15</u>	<u>648</u>	<u>25</u>	<u>166</u>	<u>15</u>	<u>966</u>
P 7 <u>30</u>	<u>117</u>	<u>18</u>	<u>862</u>	<u>30</u>	<u>173</u>	<u>18</u>	<u>1071</u>
P 8 _____	_____	<u>21</u>	<u>1054</u>	<u>35</u>	<u>177</u>	<u>21</u>	<u>1132</u>
P 9 _____	_____	<u>24</u>	<u>1146</u>	<u>40</u>	<u>181</u>	<u>24</u>	<u>1169</u>
P10 _____	_____	<u>27</u>	<u>1188</u>	<u>45</u>	<u>185</u>	<u>27</u>	<u>1196</u>
P11 _____	_____	<u>30</u>	<u>1215</u>	_____	_____	<u>30</u>	<u>1217</u>
P12 _____	_____	<u>33</u>	<u>1238</u>	_____	_____	<u>33</u>	<u>1230</u>
P13 _____	_____	<u>36</u>	<u>1253</u>	_____	_____	<u>36</u>	<u>1240</u>
P14 _____	_____	<u>39</u>	<u>1265</u>	_____	_____	<u>39</u>	<u>1249</u>
P15 _____	_____	<u>42</u>	<u>1272</u>	_____	_____	<u>42</u>	<u>1257</u>
P16 _____	_____	<u>45</u>	<u>1280</u>	_____	_____	<u>45</u>	<u>1263</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>1267</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1271</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1275</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1278</u>
						<u>60</u>	<u>1282</u>

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TKT # 5587

Robert Campbell
Klavca # 6
DST 3

