

Company Associated Petroleum Consultants & Crown Petroleum, Inc. Lease & Well No. Knop #1
 Elevation - Formation Simpson Effective Pay - Ft. Ticket No. 8284
 Date 12/31/80 Sec. 22 Twp. 29S Range 11W County Pratt State Kansas
 Test Approved by Philip J Paschay Western Representative Jim Wondra
 Formation Test No. 2 Interval Tested from 4706 ft. to 4725 ft. Total Depth 4725 ft.
 Packer Depth 4701 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4706 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4715 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4718 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Transpac Drilling Rig #1 Drill Collar Length 467 I. D. 2 1/4 in.
 Mud Type Premix Viscosity 82 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 16.4 cc. Drill Pipe Length 4215 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 19 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 throughout test

Recovered 310 ft. of gas in pipe
 Recovered 65 ft. of gas cut mud - slightly oil cut
 Recovered 360 ft. of salt water
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 1:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 5:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 131
 Initial Hydrostatic Pressure (A) 2426 P.S.I.
 Initial Flow Period 60 Minutes (B) 82 P.S.I. to (C) 116 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1710 P.S.I.
 Final Flow Period 75 Minutes (E) 195 P.S.I. to (F) 231 P.S.I.
 Final Closed In Period 60 Minutes (G) 1702 P.S.I.
 Final Hydrostatic Pressure (H) 2395 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/31/80 Recorder No. 2607 Capacity 4150 Test Ticket No. 8284 Location 4715 Ft.
 Clock No. - Elevation - Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2426</u>	P.S.I.	<u>1:45A</u>	<u>M</u>
B First Initial Flow Pressure	<u>82</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u>
C First Final Flow Pressure	<u>116</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u>
D Initial Closed-in Pressure	<u>1710</u>	P.S.I.	<u>60</u>	<u>Mins. 75</u>
E Second Initial Flow Pressure	<u>195</u>	P.S.I.	<u>60</u>	<u>Mins. 60</u>
F Second Final Flow Pressure	<u>231</u>	P.S.I.		
G Final Closed-in Pressure	<u>1702</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2395</u>	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>15</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>82</u>	<u>0</u>	<u>116</u>	<u>0</u>	<u>195</u>	<u>0</u>	<u>231</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>260</u>	<u>5</u>	<u>180</u>	<u>3</u>	<u>475</u>
P 3 <u>10</u>	<u>73</u>	<u>6</u>	<u>629</u>	<u>10</u>	<u>178</u>	<u>6</u>	<u>777</u>
P 4 <u>15</u>	<u>73</u>	<u>9</u>	<u>1075</u>	<u>15</u>	<u>178</u>	<u>9</u>	<u>1171</u>
P 5 <u>20</u>	<u>74</u>	<u>12</u>	<u>1408</u>	<u>20</u>	<u>178</u>	<u>12</u>	<u>1454</u>
P 6 <u>25</u>	<u>79</u>	<u>15</u>	<u>1571</u>	<u>25</u>	<u>180</u>	<u>15</u>	<u>1576</u>
P 7 <u>30</u>	<u>84</u>	<u>18</u>	<u>1628</u>	<u>30</u>	<u>183</u>	<u>18</u>	<u>1626</u>
P 8 <u>35</u>	<u>88</u>	<u>21</u>	<u>1655</u>	<u>35</u>	<u>190</u>	<u>21</u>	<u>1653</u>
P 9 <u>40</u>	<u>92</u>	<u>24</u>	<u>1672</u>	<u>40</u>	<u>195</u>	<u>24</u>	<u>1668</u>
P10 <u>45</u>	<u>97</u>	<u>27</u>	<u>1683</u>	<u>45</u>	<u>199</u>	<u>27</u>	<u>1676</u>
P11 <u>50</u>	<u>104</u>	<u>30</u>	<u>1687</u>	<u>50</u>	<u>201</u>	<u>30</u>	<u>1683</u>
P12 <u>55</u>	<u>108</u>	<u>33</u>	<u>1693</u>	<u>55</u>	<u>206</u>	<u>33</u>	<u>1689</u>
P13 <u>60</u>	<u>116</u>	<u>36</u>	<u>1697</u>	<u>60</u>	<u>212</u>	<u>36</u>	<u>1692</u>
P14		<u>39</u>	<u>1702</u>	<u>65</u>	<u>218</u>	<u>39</u>	<u>1695</u>
P15		<u>42</u>	<u>1704</u>	<u>70</u>	<u>226</u>	<u>42</u>	<u>1697</u>
P16		<u>45</u>	<u>1706</u>	<u>75</u>	<u>231</u>	<u>45</u>	<u>1699</u>
P17		<u>48</u>	<u>1707</u>			<u>48</u>	<u>1699</u>
P18		<u>51</u>	<u>1707</u>			<u>51</u>	<u>1700</u>
P19		<u>54</u>	<u>1708</u>			<u>54</u>	<u>1701</u>
P20		<u>57</u>	<u>1709</u>			<u>57</u>	<u>1701</u>
		<u>60</u>	<u>1710</u>			<u>60</u>	<u>1702</u>

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