



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 13179

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1179 KB Formation Simpson SD. Eff. Pay Ft.

District Augustay Date 1-27-82 Customer Order No.

COMPANY NAME Hawkins Oil & Gas, Inc.

ADDRESS 320 So. Boston Bldg. Suite 701, Tulsa, OK 74103

LEASE AND WELL NO. Carter #1-22 COUNTY Sumner STATE KS Sec. 22 Twp 31 S Rge 2 E

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3635 ft. to 3642 ft. Total Depth 3642 ft.

Packer Depth 3635 ft. Size 6 3/4 in. Packer Depth - ft. Size in.

Packer Depth 3635 ft. Size 6 3/4 in. Packer Depth - ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (inside) AP 3620 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (outside) AP 3624 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor DNB #3 Drill Collar Length - I. D. in.

Mud Type Chemical Viscosity 42 Weight Pipe Length - I. D. in.

Weight 9- Water Loss 10 cc. Drill Pipe Length 3620 I. D. 3.8 in.

Chlorides 2,000 P.M. Test Tool Length 25 ft. Tool Size 4 1/2 in.

Jars: Make WTC Serial Number 407 Anchor Length 7 ft. Size 4 1/2 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 X 4 in.

Blow: Weak 25 min

Recovered 20 ft. of Very slight oil + goo cut mud (Few oil spots on top)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 11:15 A.M. Time Pick Up Tool 12:10 P.M. Time Off Location 7:30 P.M.

Time Set Packer(s) 2:00 P.M. Time Started Off Bottom 5:00 P.M. Maximum Temperature 117

Initial Hydrostatic Pressure (A) 1715 P.S.I.

Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period Minutes 30 (D) 1375 P.S.I.

Final Flow Period Minutes 60 (E) 30 P.S.I. to (F) 20 P.S.I.

Final Closed In Period Minutes 60 (G) 1385 P.S.I.

Final Hydrostatic Pressure (H) 1675 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative ALLEN EDGINGTON

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test \$625, Mileage 46 \$34.50, Insurance \$50.00, TOTAL \$1074.50.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/27/82 Test Ticket No. 13129  
 Recorder No. 51616 Capacity 3950 Location 3620 Ft.  
 Clock No. --- Elevation 1179 KB Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1725</u>	P.S.I.	<u>2:00 P M</u>	
B First Initial Flow Pressure	<u>35</u>	P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>21</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1378</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>34</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>34</u>	P.S.I.		
G Final Closed-in Pressure	<u>1400</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1495</u>	P.S.I.		

PRESSURE BREAKDOWN

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

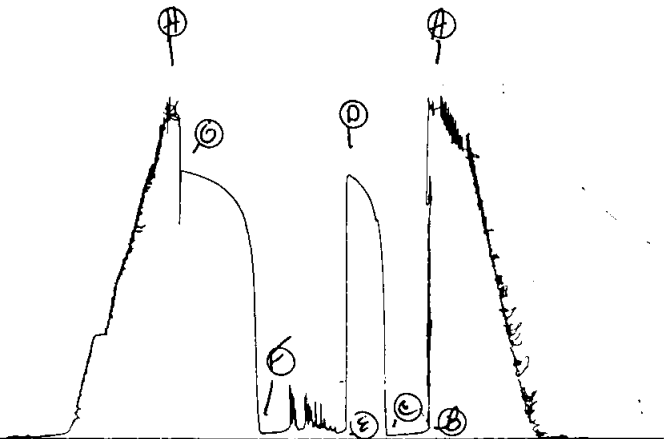
Initial Shut-In  
 Breakdown: 10 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

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 0	<u>35</u>	0	<u>21</u>	0	<u>34</u>	0	<u>34</u>
P 2 5	<u>35</u>	3	<u>878</u>	5	}	3	<u>435</u>
P 3 10	<u>31</u>	6	<u>1121</u>	10		6	<u>932</u>
P 4 15	<u>27</u>	9	<u>1182</u>	15		9	<u>1070</u>
P 5 20	<u>25</u>	12	<u>1259</u>	20		12	<u>1157</u>
P 6 25	<u>22</u>	15	<u>1292</u>	25		15	<u>1207</u>
P 7 30	<u>21</u>	18	<u>1319</u>	30		18	<u>1242</u>
P 8 35		21	<u>1342</u>	35		21	<u>1265</u>
P 9 40		24	<u>1362</u>	40		24	<u>1289</u>
P10 45		27	<u>1375</u>	45		27	<u>1309</u>
P11 50		30	<u>1378</u>	50		30	<u>1322</u>
P12 55		33		55	33	<u>1337</u>	
P13 60		36		60	<u>34</u>	36	<u>1349</u>
P14		39		65		39	<u>1359</u>
P15		42		70		42	<u>1367</u>
P16		45		75		45	<u>1375</u>
P17		48		80		48	<u>1382</u>
P18		51		85		51	<u>1388</u>
P19		54		90		54	<u>1394</u>
P20		57				57	<u>1398</u>
		60				60	<u>1400</u>

JK# 13179  
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Company Hawkins Oil & Gas, Inc. Lease & Well No. Gartter #1-22  
 Elevation 1179 Kelly Bushing Formation Simpson Sand Effective Pay - Ft. Ticket No. 13179  
 Date 1/27/82 Sec. 22 Twp 31S Range 2E County Sumner State Kansas  
 Test Approved by Paul Koontz Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 3635 ft. to 3642 ft. Total Depth 3642 ft.  
 Packer Depth 3630 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3635 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) AP 3620 ft. Recorder Number 5666 Cap 3950  
 Bottom Recorder Depth (Outside) AP 3624 ft. Recorder Number 3354 Cap 4200  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor DNB Drlg. Rig #3 Drill Collar Length - I. D. - in.  
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.  
 Weight 9- Water Loss 10 cc. Drill Pipe Length 3620 I. D. 3.8 in.  
 Chlorides 2,000 P.P.M. Test Tool Length 35 ft. Tool Size 4 1/2 in.  
 Jars: Make WTC Serial Number 407 Anchor Length 7 ft. Size 4 1/2 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 in.

Blow: Weak for twenty-five minutes.

Recovered 20 ft. of very slightly oil and gas cut mud (few oil spots on top)  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set	Packer(s)	Time Started	Off Bottom	Maximum Temperature
	<u>2:00</u>	<u>5:00</u>		<u>117°</u>
Initial Hydrostatic Pressure			(A) <u>1725</u>	P.S.I.
Initial Flow Period		Minutes <u>30</u>	(B) <u>35</u>	P.S.I. to (C) <u>21</u> P.S.I.
Initial Closed In Period		Minutes <u>30</u>	(D) <u>1378</u>	P.S.I.
Final Flow Period		Minutes <u>60</u>	(E) <u>34</u>	P.S.I. to (F) <u>34</u> P.S.I.
Final Closed In Period		Minutes <u>60</u>	(G) <u>1400</u>	P.S.I.
Final Hydrostatic Pressure			(H) <u>1695</u>	P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 1/27/82 Recorder No. 5666 Capacity 3950 Test Ticket No. 13179  
 Clock No. --- Elevation 1179 Location Kelly Bushing Well Temperature 117 °F  
 Fr. 3620

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1725	P.S.I.	2:00P	M
B First Initial Flow Pressure	35	P.S.I.	30	Mins 30
C First Final Flow Pressure	21	P.S.I.	30	Mins 30
D Initial Closed-in Pressure	1378	P.S.I.	60	Mins 60
E Second Initial Flow Pressure	34	P.S.I.	60	Mins 60
F Second Final Flow Pressure	34	P.S.I.		
G Final Closed-in Pressure	1400	P.S.I.		
H Final Hydrostatic Mud	1695	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: 10 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>35</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>35</u>	<u>3</u>	<u>878</u>	<u>5</u>	<u>34</u>	<u>3</u>	<u>435</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>1131</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>932</u>
P 4 <u>15</u>	<u>27</u>	<u>9</u>	<u>1193</u>	<u>15</u>	<u>34</u>	<u>9</u>	<u>1070</u>
P 5 <u>20</u>	<u>25</u>	<u>12</u>	<u>1259</u>	<u>20</u>	<u>34</u>	<u>12</u>	<u>1157</u>
P 6 <u>25</u>	<u>22</u>	<u>15</u>	<u>1293</u>	<u>25</u>	<u>34</u>	<u>15</u>	<u>1207</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>1319</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>1243</u>
P 8 _____	_____	<u>21</u>	<u>1343</u>	<u>35</u>	<u>34</u>	<u>21</u>	<u>1265</u>
P 9 _____	_____	<u>24</u>	<u>1363</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>1289</u>
P10 _____	_____	<u>27</u>	<u>1375</u>	<u>45</u>	<u>34</u>	<u>27</u>	<u>1309</u>
P11 _____	_____	<u>30</u>	<u>1378</u>	<u>50</u>	<u>34</u>	<u>30</u>	<u>1323</u>
P12 _____	_____	_____	_____	<u>55</u>	<u>34</u>	<u>33</u>	<u>1337</u>
P13 _____	_____	_____	_____	<u>60</u>	<u>34</u>	<u>36</u>	<u>1349</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>1359</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>1367</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1375</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>1382</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>1388</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>1394</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>1398</u>
						<u>60</u>	<u>1400</u>