

Company W. K. Black, Inc. Lease & Well No. Randle #2
 Elevation 1880 Ground Level Formation Chase Effective Pay --- Ft. Ticket No. 4056
 Date 10/22/79 Sec. 15 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by William K. Black Western Representative Bill Hager
 Formation Test No. 1 Interval Tested from 2098 ft. to 2110 ft. Total Depth 2110 ft.
 Packer Depth 2093 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.
 Packer Depth 2098 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.
 Depth of Selective Zone Set ---
 Top Recorder Depth (Inside) 2103 ft. Recorder Number 2604 Cap. 4150
 Bottom Recorder Depth (Outside) 2106 ft. Recorder Number 6074 Cap. 5100
 Below Straddle Recorder Depth --- ft. Recorder Number --- Cap. ---
 Drilling Contractor Gabbert & Jones Drilling Rig #9 Drill Collar Length 240 I. D. 2 1/4 ID in.
 Mud Type premix-starch Viscosity 35 Weight Pipe Length --- I. D. --- in.
 Weight 9.7 Water Loss --- cc. Drill Pipe Length 1830 I. D. 3.8 in.
 Chlorides 80,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 407 Anchor Length 12 ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out --- 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: Good blow throughout test.

Recovered 30 ft. of slightly gas cut mud
 Recovered 240 ft. of slightly gas salt water

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Remarks: OUTSIDE CLOCK STOPPED CHLORIDES 100,000 ppm

Time Set Packer(s) 12:15 ~~AM~~ P.M. Time Started Off Bottom 3:15 ~~AM~~ P.M. Maximum Temperature 88⁰
 Initial Hydrostatic Pressure (A) 1123 P.S.I.
 Initial Flow Period Minutes 30 (B) 75 P.S.I. to (C) 92 P.S.I.
 Initial Closed In Period Minutes 60 (D) 709 P.S.I.
 Final Flow Period Minutes 30 (E) 149 P.S.I. to (F) 154 P.S.I.
 Final Closed In Period Minutes 60 (G) 689 P.S.I.
 Final Hydrostatic Pressure (H) 1075 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/22/79 Test Ticket No. 4056
 Recorder No. 2604 Capacity 4150 Location 2103 Ft.
 Clock No. --- Elevation 1880 Ground Level Well Temperature 88 °F

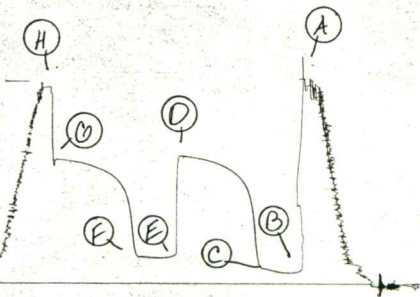
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1123	P.S.I.	12:15P	M
B First Initial Flow Pressure	75	P.S.I.	30	Mins.
C First Final Flow Pressure	92	P.S.I.	60	Mins.
D Initial Closed-in Pressure	709	P.S.I.	30	Mins.
E Second Initial Flow Pressure	149	P.S.I.	60	Mins.
F Second Final Flow Pressure	154	P.S.I.		
G Final Closed-in Pressure	689	P.S.I.		
H Final Hydrostatic Mud	1075	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>6</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>75</u>	<u>0</u>	<u>92</u>	<u>0</u>	<u>149</u>	<u>0</u>	<u>154</u>
P 2 <u>5</u>	<u>66</u>	<u>3</u>	<u>153</u>	<u>5</u>	<u>149</u>	<u>3</u>	<u>267</u>
P 3 <u>10</u>	<u>64</u>	<u>6</u>	<u>322</u>	<u>10</u>	<u>145</u>	<u>6</u>	<u>419</u>
P 4 <u>15</u>	<u>68</u>	<u>9</u>	<u>455</u>	<u>15</u>	<u>144</u>	<u>9</u>	<u>498</u>
P 5 <u>20</u>	<u>75</u>	<u>12</u>	<u>527</u>	<u>20</u>	<u>147</u>	<u>12</u>	<u>540</u>
P 6 <u>25</u>	<u>83</u>	<u>15</u>	<u>567</u>	<u>25</u>	<u>151</u>	<u>15</u>	<u>573</u>
P 7 <u>30</u>	<u>92</u>	<u>18</u>	<u>594</u>	<u>30</u>	<u>154</u>	<u>18</u>	<u>594</u>
P 8		<u>21</u>	<u>613</u>			<u>21</u>	<u>611</u>
P 9		<u>24</u>	<u>629</u>			<u>24</u>	<u>621</u>
P10		<u>27</u>	<u>644</u>			<u>27</u>	<u>633</u>
P11		<u>30</u>	<u>655</u>			<u>30</u>	<u>643</u>
P12		<u>33</u>	<u>665</u>			<u>33</u>	<u>650</u>
P13		<u>36</u>	<u>676</u>			<u>36</u>	<u>659</u>
P14		<u>39</u>	<u>680</u>			<u>39</u>	<u>666</u>
P15		<u>42</u>	<u>686</u>			<u>42</u>	<u>670</u>
P16		<u>45</u>	<u>692</u>			<u>45</u>	<u>674</u>
P17		<u>48</u>	<u>699</u>			<u>48</u>	<u>678</u>
P18		<u>51</u>	<u>701</u>			<u>51</u>	<u>680</u>
P19		<u>54</u>	<u>704</u>			<u>54</u>	<u>684</u>
P20		<u>57</u>	<u>707</u>			<u>57</u>	<u>686</u>
		<u>60</u>	<u>709</u>			<u>60</u>	<u>689</u>

2607

RL # 4056
I



Company W. K. Black, Inc. Lease & Well No. Randle #2
 Elevation 1880 Ground Level (Est.) Mississippi Effective Pay --- Ft. Ticket No. 4015
 Date 10/28/79 Sec. 15 Twp. 29S Range 13W County Pratt State Kansas
 Test Approved by Jerry A. Smith Western Representative Dave Sloan
 Formation Test No. 2 Interval Tested from 4402 ft. to 4424 ft. Total Depth 4424 ft.
 Packer Depth 4397 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4402 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4416 ft. Recorder Number 5673 Cap. 5400
 Bottom Recorder Depth (Outside) 4419 ft. Recorder Number 6246 Cap. 5200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Gabbert-Jones Rig # 9 Drill Collar Length 240 I. D. 3.2 in.
 Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.7 Water Loss 12 cc. Drill Pipe Length 4134 I. D. 3.8 in.
 Chlorides 28,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 406 Anchor Length 22 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. Gas to surface in twenty-four minutes. See attached sheet for gas measurements.

Recovered 20 ft. of drilling mud. Gas cut.
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 6:45 ~~A.M.~~ P.M. Time Started Off Bottom 10:00 ~~A.M.~~ P.M. Thermometer Broken
 Initial Hydrostatic Pressure 2340 P.S.I. Maximum Temperature -
 Initial Flow Period 30 Minutes (B) 27 P.S.I. to (C) 27 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1519 P.S.I.
 Final Flow Period 45 Minutes (E) 22 P.S.I. to (F) 22 P.S.I.
 Final Closed In Period 60 Minutes (G) 1465 P.S.I.
 Final Hydrostatic Pressure 2275 P.S.I. (H) 2275 P.S.I.

GAS FLOW REPORT

Date 10/28/79 Ticket 4015 Company W. K. Black, Inc.
 Well Name and No. Randle #2 Dst No. 2 Interval Tested 4402'-4424'
 County Pratt State Kansas Sec. 15 Twp. 29S Rg. 13W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla 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						
6 min.		18 min.	1/4" orifice			7,120 CFPD

SECOND FLOW						
10 min.		5 lbs.	1/4" orifice			20,700 CFPD
20 min.		2 lbs.	1/4" orifice			12,700 CFPD
30 min.		52" of water	1/4" orifice			12,100 CFPD
40 min.		48" of water	1/4" orifice			11,600 CFPD
45 min.		48" of water	1/4" orifice			11,600 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ----- Date to be Invoiced 10/28/79

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% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME W. K. Black, Inc.

Authorized by Davle Sloan

WESTERN TESTING CO., INC.

Pressure Data

Date 10/28/79 Test Ticket No. 4015
 Recorder No. 5673 Capacity 5400 Location 4416 Ft.
 Clock No. -- Elevation 1880 Ground Level (Est.) Well Temperature --- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2340	P.S.I.	6:45P	M
B First Initial Flow Pressure	27	P.S.I.	30	Mins.
C First Final Flow Pressure	27	P.S.I.	60	Mins.
D Initial Closed-in Pressure	1519	P.S.I.	45	Mins.
E Second Initial Flow Pressure	22	P.S.I.	60	Mins.
F Second Final Flow Pressure	22	P.S.I.		
G Final Closed-in Pressure	1465	P.S.I.		
H Final Hydrostatic Mud	2275	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</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>27</u>	<u>0</u>	<u>27</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>22</u>
P 2 <u>5</u>	<u>27</u>	<u>3</u>	<u>303</u>	<u>5</u>	<u>22</u>	<u>3</u>	<u>208</u>
P 3 <u>10</u>	<u>27</u>	<u>6</u>	<u>511</u>	<u>10</u>	<u>22</u>	<u>6</u>	<u>361</u>
P 4 <u>15</u>	<u>27</u>	<u>9</u>	<u>677</u>	<u>15</u>	<u>22</u>	<u>9</u>	<u>519</u>
P 5 <u>20</u>	<u>27</u>	<u>12</u>	<u>833</u>	<u>20</u>	<u>22</u>	<u>12</u>	<u>637</u>
P 6 <u>25</u>	<u>27</u>	<u>15</u>	<u>989</u>	<u>25</u>	<u>22</u>	<u>15</u>	<u>776</u>
P 7 <u>30</u>	<u>27</u>	<u>18</u>	<u>1116</u>	<u>30</u>	<u>22</u>	<u>18</u>	<u>883</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>1224</u>	<u>35</u>	<u>22</u>	<u>21</u>	<u>986</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>1316</u>	<u>40</u>	<u>22</u>	<u>24</u>	<u>1084</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>1384</u>	<u>45</u>	<u>22</u>	<u>27</u>	<u>1168</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>1424</u>	<u> </u>	<u> </u>	<u>30</u>	<u>1249</u>
P12 <u> </u>	<u> </u>	<u>33</u>	<u>1454</u>	<u> </u>	<u> </u>	<u>33</u>	<u>1295</u>
P13 <u> </u>	<u> </u>	<u>36</u>	<u>1473</u>	<u> </u>	<u> </u>	<u>36</u>	<u>1332</u>
P14 <u> </u>	<u> </u>	<u>39</u>	<u>1486</u>	<u> </u>	<u> </u>	<u>39</u>	<u>1373</u>
P15 <u> </u>	<u> </u>	<u>42</u>	<u>1493</u>	<u> </u>	<u> </u>	<u>42</u>	<u>1395</u>
P16 <u> </u>	<u> </u>	<u>45</u>	<u>1500</u>	<u> </u>	<u> </u>	<u>45</u>	<u>1416</u>
P17 <u> </u>	<u> </u>	<u>48</u>	<u>1504</u>	<u> </u>	<u> </u>	<u>48</u>	<u>1430</u>
P18 <u> </u>	<u> </u>	<u>51</u>	<u>1511</u>	<u> </u>	<u> </u>	<u>51</u>	<u>1443</u>
P19 <u> </u>	<u> </u>	<u>54</u>	<u>1514</u>	<u> </u>	<u> </u>	<u>54</u>	<u>1450</u>
P20 <u> </u>	<u> </u>	<u>57</u>	<u>1517</u>	<u> </u>	<u> </u>	<u>57</u>	<u>1457</u>
		<u>60</u>	<u>1519</u>			<u>60</u>	<u>1465</u>

TKL # 4055
I

Random #2
DST #2

