



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 3374

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 2188 K.B. Formation Miss. Eff. Pay _____ Ft.

District PRATT Date 9-1-79 Customer Order No. _____

COMPANY NAME J. MARK RICHARDSON

ADDRESS 200 O.W. Garvey Bld. WICHITA, KANS. 67202

LEASE AND WELL NO. #1 Wheeler C-1 COUNTY Kiowa STATE Ks. Sec. 33 Twp 30S Rge 19W

Mail Invoice To Wheeler #1-C Co. Name Sam Address _____ No. Copies Requested Reg.

Mail Charts To Sam Address _____ No. Copies Requested Reg.

Formation Test No. 1 Interval Tested from 5042 ft. to 5100 ft. Total Depth 5100 ft.

Packer Depth 5037 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 5042 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5052 ft. Recorder Number 6246 Cap. 5200

Bottom Recorder Depth (Outside) 5055 ft. Recorder Number 5673 Cap. 5400

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

Drilling Contractor Gabbett & Jones #6 Drill Collar Length 427 I. D. 2.2 in.

Mud Type DRIS PAC Viscosity 46 Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 13.2 cc. Drill Pipe Length 4587 I. D. 3.8 in.

Chlorides 12,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 O.D. in.

Jars: Make W.T.C. Serial Number 5816305400 Anchor Length 28 ft. Size 5 1/2 O.D. 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 F.W. in.

Blow: STRONG BLOW - GAS TO SURFACE 3 MIN. INITIAL FLOW PERIOD
SEE ATTACHED FLOW SHEET

Recovered 124 ft. of GAS CUT MUD

Recovered 470 ft. of SLIGHTLY OIL & GAS CUT MUD

Recovered 314 ft. of SLIGHTLY OIL - GAS & WATER CUT MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: SMALL MUD LEAKAGE AROUND PACKERS INITIAL FLOW PERIOD & START OF FINAL FLOW PERIOD

Time Set Packer(s) 2:12 A.M. P.M. Time Started Off Bottom 4:42 A.M. P.M. Maximum Temperature 120

Initial Hydrostatic Pressure _____ (A) 2370 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 143 P.S.I. to (C) 287 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 1512 P.S.I.

Final Flow Period _____ Minutes 60 (E) 314 P.S.I. to (F) 301 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 1370 P.S.I.

Final Hydrostatic Pressure _____ (H) 2370 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 J. Mark Richardson
Signature of Customer or his authorized representative

Western Representative Dave Sloan - Thank you

FIELD INVOICE

Open Hole Test \$ ✓ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ ✓ 275.00
Selective Zone \$ _____
Safety Joint \$ ✓ 35.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
60 Mileage PRATT \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____

TOTAL \$ 910.00



GAS FLOW REPORT

No 1939

Date 9-1-79 Ticket 3374 Company J. MARK RICHARDSON
 Well Name and No. #1 Wheeler C-1 Dst No. DST 1 Interval Tested 5042-5100
 County RIOUWA State KANS. Sec. 33 Twp. 30S Rg. 19W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
10	14	1 INCH			577,000 C. F. P. D.
20	14	1 INCH			577,000 C. F. P. D.
30	10	1 INCH			472,000 C. F. P. D.

SECOND FLOW					
10	10	1 INCH			472,000 C. F. P. D.
20	10	1 INCH			472,000 C. F. P. D.
30	10	1 INCH			472,000 C. F. P. D.
40	8	1 INCH			415,000 C. F. P. D.
50	8	1 INCH			415,000 C. F. P. D.
60	8	1 INCH			415,000 C. F. P. D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 _____

Authorized by _____

Pressure Data

9-1-79

Test Ticket No. 3374

Order No. 6246 Capacity 5200 Location 5052 Ft.

No. _____ Elevation 2188 K.B. Well Temperature 120 °F

Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2412 P.S.I.	2:12 A.	M
First Initial Flow Pressure	178 P.S.I.	30 Mins.	30 Mins.
First Final Flow Pressure	284 P.S.I.	30 Mins.	30 Mins.
Initial Closed-in Pressure	1527 P.S.I.	60 Mins.	60 Mins.
Second Initial Flow Pressure	335 P.S.I.	30 Mins.	33 Mins.
Second Final Flow Pressure	329 P.S.I.		
Final Closed-in Pressure	1387 P.S.I.		
Final Hydrostatic Mud	2376 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure			Initial Shut-In			Second Flow Pressure			Final Shut-In		
Breakdown: <u>6</u> Inc.			Breakdown: <u>10</u> Inc.			Breakdown: <u>12</u> Inc.			Breakdown: <u>11</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.		
	Press.	Point Minutes		Press.	Point Minutes		Press.	Point Minutes		Press.	Point Minutes
0	<u>178</u>	<u>0</u>		<u>284</u>	<u>0</u>		<u>335</u>	<u>0</u>		<u>329</u>	<u>0</u>
5	<u>148</u>	<u>3</u>		<u>1083</u>	<u>3</u>		<u>341</u>	<u>3</u>		<u>942</u>	<u>3</u>
10	<u>160</u>	<u>6</u>		<u>1249</u>	<u>6</u>		<u>365</u>	<u>6</u>		<u>1101</u>	<u>6</u>
15	<u>205</u>	<u>9</u>		<u>1347</u>	<u>9</u>		<u>340</u>	<u>9</u>		<u>1187</u>	<u>9</u>
20	<u>270</u>	<u>12</u>		<u>1409</u>	<u>12</u>		<u>338</u>	<u>12</u>		<u>1241</u>	<u>12</u>
25	<u>267</u>	<u>15</u>	<i>Right</i>	<u>1439</u>	<u>15</u>		<u>336</u>	<u>15</u>		<u>1278</u>	<u>15</u>
30	<u>284</u>	<u>18</u>	<i>LM</i>	<u>1464</u>	<u>18</u>		<u>333</u>	<u>18</u>		<u>1306</u>	<u>18</u>
35		<u>21</u>		<u>1484</u>	<u>21</u>		<u>332</u>	<u>21</u>		<u>1329</u>	<u>21</u>
40		<u>24</u>		<u>1501</u>	<u>24</u>		<u>330</u>	<u>24</u>		<u>1346</u>	<u>24</u>
45		<u>27</u>		<u>1513</u>	<u>27</u>		<u>329</u>	<u>27</u>		<u>1361</u>	<u>27</u>
50		<u>30</u>		<u>1527</u>	<u>30</u>		<u>↓</u>	<u>30</u>		<u>1376</u>	<u>30</u>
55		<u>33</u>			<u>33</u>		<u>↓</u>	<u>33</u>		<u>1387</u>	<u>33</u>
60		<u>36</u>			<u>36</u>		<u>329</u>	<u>36</u>			<u>36</u>
		<u>39</u>			<u>39</u>			<u>39</u>			<u>39</u>
		<u>42</u>			<u>42</u>			<u>42</u>			<u>42</u>
		<u>45</u>			<u>45</u>			<u>45</u>			<u>45</u>
		<u>48</u>			<u>48</u>			<u>48</u>			<u>48</u>
		<u>51</u>			<u>51</u>			<u>51</u>			<u>51</u>
		<u>54</u>			<u>54</u>			<u>54</u>			<u>54</u>
		<u>57</u>			<u>57</u>			<u>57</u>			<u>57</u>
		<u>60</u>			<u>60</u>			<u>60</u>			<u>60</u>

Company J. Mark Richardson Lease & Well No. Wheeler #1-C
Elevation 2188 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 3374
Date 9-1-79 Sec. 33 Twp. 30S Range 19W County Kiowa State Kansas
Test Approved by J. Mark Richardson Western Representative Dave Sloan
Formation Test No. 1 Interval Tested from 5042 ft. to 5100 ft. Total Depth 5100 ft.
Packer Depth 5037 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 5042 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 5052 ft. Recorder Number 6246 Cap. 5200
Bottom Recorder Depth (Outside) 5055 ft. Recorder Number 5673 Cap. 5400
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Gabbert-Jones (#6) Drill Collar Length 427 I. D. 2.2 in.
Mud Type Drispac Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.1 Water Loss 13.2 cc. Drill Pipe Length 4587 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
Jars: Make W.T.C. Serial Number 408 58' (30' Collar) Anchor Length 28 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 FH in.

Blow: Strong blow throughout test. Gas to surface in 3 minutes on initial flow period.
See attached sheet for gas measurements.

Recovered 124 ft. of gas cut mud
Recovered 470 ft. of slightly oil and gas cut mud
Recovered 314 ft. of slightly oil, gas and water cut mud.

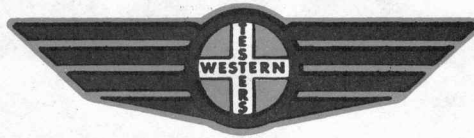
Recovered - ft. of -

Recovered - ft. of -

Remarks: Small mud leakage around packers on initial flow period, and start of final flow period.

Time Set Packer(s) 2:12 ~~==P.M.~~ ^{A.M.} Time Started Off Bottom 4:42 ~~==P.M.~~ ^{A.M.} Maximum Temperature 120
Initial Hydrostatic Pressure (A) 2412 P.S.I.
Initial Flow Period Minutes 30 (B) 178 P.S.I. to (C) 284 P.S.I.
Initial Closed In Period Minutes 30 (D) 1527 P.S.I.
Final Flow Period Minutes 60 (E) 335 P.S.I. to (F) 329 P.S.I.
Final Closed In Period Minutes 30 (G) 1387 P.S.I.
Final Hydrostatic Pressure (H) 2376 P.S.I.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 9-1-79 Ticket 3374 Company J. Mark Richardson
Well Name and No. Wheeler C #1 Dst No. 1 Interval Tested 5042' - 5100'
County Kiowa State Kansas Sec. 33 Twp. 30S Rg. 19W

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						
	10 min.	14 PSIG	1" orifice			577,000 C.F.P.D.
	20 min.	14 PSIG	1" orifice			577,000 C.F.P.D.
	30 min.	10 PSIG	1" orifice			472,000 C.F.P.D.

SECOND FLOW						
	10 min.	10 PSIG	1" orifice			472,000 C.F.P.D.
	20 min.	10 PSIG	1" orifice			472,000 C.F.P.D.
	30 min.	10 PSIG	1" orifice			472,000 C.F.P.D.
	40 min.	8 PSIG	1" orifice			415,000 C.F.P.D.
	50 min.	8 PSIG	1" orifice			415,000 C.F.P.D.
	60 min.	8 PSIG	1" orifice			415,000 C.F.P.D.

GAS BOTTLE

Serial No. _____ = _____ Date Bottle Filled _____ - _____ Date to be Invoiced _____ - _____

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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 J. Mark Richardson

Authorized by J. Mark Richardson

WESTERN TESTING CO., INC.

Pressure Data

Date 9-1-79 Test Ticket No. 3374
 Recorder No. 6246 Capacity 5200 Location 5052 Ft.
 Clock No. - Elevation 2188 Kelly Bushing Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2412 P.S.I.	Open Tool	2:12A. M	
B First Initial Flow Pressure	178 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	284 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1527 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	335 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	329 P.S.I.			
G Final Closed-in Pressure	1387 P.S.I.			
H Final Hydrostatic Mud	2376 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>11</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>178</u>	<u>0</u>	<u>284</u>	<u>0</u>	<u>335</u>	<u>0</u>	<u>329</u>
P 2 <u>5</u>	<u>148</u>	<u>3</u>	<u>1083</u>	<u>5</u>	<u>341</u>	<u>3</u>	<u>942</u>
P 3 <u>10</u>	<u>160</u>	<u>6</u>	<u>1249</u>	<u>10</u>	<u>365</u>	<u>6</u>	<u>1101</u>
P 4 <u>15</u>	<u>205</u>	<u>9</u>	<u>1347</u>	<u>15</u>	<u>340</u>	<u>9</u>	<u>1187</u>
P 5 <u>20</u>	<u>270</u>	<u>12</u>	<u>1407</u>	<u>20</u>	<u>338</u>	<u>12</u>	<u>1241</u>
P 6 <u>25</u>	<u>267</u>	<u>15</u>	<u>1439</u>	<u>25</u>	<u>336</u>	<u>15</u>	<u>1278</u>
P 7 <u>30</u>	<u>284</u>	<u>18</u>	<u>1464</u>	<u>30</u>	<u>333</u>	<u>18</u>	<u>1306</u>
P 8		<u>21</u>	<u>1484</u>	<u>35</u>	<u>332</u>	<u>21</u>	<u>1329</u>
P 9		<u>24</u>	<u>1501</u>	<u>40</u>	<u>330</u>	<u>24</u>	<u>1346</u>
P 10		<u>27</u>	<u>1513</u>	<u>45</u>	<u>329</u>	<u>27</u>	<u>1361</u>
P 11		<u>30</u>	<u>1527</u>	<u>50</u>	<u>329</u>	<u>30</u>	<u>1376</u>
P 12				<u>55</u>	<u>329</u>	<u>33</u>	<u>1387</u>
P 13				<u>60</u>	<u>329</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

6246

Simark Richardson
#1 Wheeler C-1
DST #1

TK#3374

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