



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

NO 18251

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

Elevation _____ Formation _____ Eff. Pay _____ Ft.

District Pratt

Date 11/4/82

Customer Order No. -

COMPANY NAME W.L. Kirkman, Inc.

ADDRESS 435 South Webb Road, PO Box 11 Wichita, KS 67207

LEASE AND WELL NO. Gibson #2 COUNTY Barber STATE Ks Sec. 20 Twp. 30 Rge. 15W

Mail Invoice To Same #2 GIBSON No. Copies Requested 5

Mail Charts To Same No. Copies Requested 5

Formation Test No. 1 Interval Tested From 4384 ft. to 4425 ft. Total Depth 4425 ft.

Packer Depth 4379 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4384 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4414 ft.

Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 4417 ft.

Recorder Number 13552 Cap. 4050

Below Straddle Recorder Depth - ft.

Recorder Number - Cap. -

Drilling Contractor Aldebaran Rig #2

Drill Collar Length 560 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 58

Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 14.7 cc.

Drill Pipe Length 3803 I. D. 3.8 in.

Chlorides 11,000 P.P.M.

Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number -

Anchor Length 41 ft. Size 5 1/2 OD in.

Did Well Flow? Yes Reversed Out Yes

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods
Gas to surface in 5 min on preflow see attached sheet for

Recovered - ft. of - 0.1 Gravity 40

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Flowed 0.1 in 50 min on second flow

Time On Location 8:00 A.M. Time Pick Up Tool 9:00 A.M. Time Off Location 9:00 A.M.

Time Set Packer(s) 11:00 A.M. Time Started Off Bottom 2:30 A.M. Maximum Temperature 122°

Initial Hydrostatic Pressure (A) 2135 P.S.I.

Initial Flow Period Minutes 30 (B) 1000 P.S.I. to (C) 1378 P.S.I.

Initial Closed In Period Minutes 60 (D) 1378 P.S.I.

Final Flow Period Minutes 60 (E) 1378 P.S.I. to (F) 1378 P.S.I.

Final Closed In Period Minutes 60 (G) 1399 P.S.I.

Final Hydrostatic Pressure (H) 2114 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 W. Siemens

Signature of Customer or his authorized representative

Western Representative Jim Wanda Thank You

FIELD INVOICE

Open Hole Test \$ 1675
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$ 125
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$ 710



No 2809

GAS FLOW REPORT

Date 11/4/82 Ticket 18251 Company W.L. Rinkman
 Well Name and No. Gibson #2 Dst No. 1 Interval Tested 4384-4425
 County Barber State Ks Sec. 20 Twp. 30 Rg. 15

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	10 H ² O	3/4			Gas to surface in 5 min
20					44,800 C.F.P.D or
30					Flowed Mud
					"

SECOND FLOW

10					To small to measure
20					"
30	19	1/4"			or 7,380 C.F.P.D
40	5	1/2"			or 14,100 "
50	10	"			or 19,900 "
60					Flowed Oil in 50 min

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 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.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 11-4 Recorder No. 13547 Capacity 4225 Test Ticket No. 18251 Location 4414 Ft
Clock No. --- Elevation --- Well Temperature 122 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2106</u> P.S.I.	<u>11:00 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>988</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>1358</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1401</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>1384</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>1408</u> P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
G Final Closed-in Pressure	<u>1415</u> P.S.I.		
H Final Hydrostatic Mud	<u>2106</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>988</u>	0	<u>1358</u>	0	<u>1384</u>	0	<u>1408</u>
P 2 5	<u>988</u>	3	<u>1363</u>	5	<u>1393</u>	3	<u>1409</u>
P 3 10	<u>1048</u>	6	<u>1368</u>	10	<u>1398</u>	6	<u>1410</u>
P 4 15	<u>1193</u>	9	<u>1373</u>	15	<u>1401</u>	9	<u>1411</u>
P 5 20	<u>1291</u>	12	<u>1378</u>	20	<u>1403</u>	12	<u>1412</u>
P 6 25	<u>1337</u>	15	<u>1382</u>	25	<u>1404</u>	15	<u>1413</u>
P 7 30	<u>1358</u>	18	<u>1384</u>	30	<u>1405</u>	18	<u>1414</u>
P 8 35		21	<u>1386</u>	35	<u>1406</u>	21	<u>1415</u>
P 9 40		24	<u>1388</u>	40	<u>1407</u>	24	<u>§</u>
P10 45		27	<u>1390</u>	45	<u>1408</u>	27	<u>§</u>
P11 50		30	<u>1391</u>	50	<u>§</u>	30	<u>1415</u>
P12 55		33	<u>1392</u>	55	<u>§</u>	33	<u>§</u>
P13 60		36	<u>1393</u>	60	<u>1408</u>	36	<u>§</u>
P14		39	<u>1394</u>	65		39	<u>§</u>
P15		42	<u>1395</u>	70		42	<u>§</u>
P16		45	<u>1396</u>	75		45	<u>1415</u>
P17		48	<u>1397</u>	80		48	<u>§</u>
P18		51	<u>1398</u>	85		51	<u>§</u>
P19		54	<u>1399</u>	90		54	<u>§</u>
P20		57	<u>1400</u>			57	<u>§</u>
		60	<u>1401</u>			60	<u>§</u>

Company W. L. Kirkman, Inc. Lease & Well No. #2 Gibson

Elevation --- Formation --- Effective Pay --- Ft. Ticket No. 18251

Date 11/4/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas

Test Approved by A. Siemans Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4384 ft. to 4425 ft. Total Depth 4425 ft.

Packer Depth 4379 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4384 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4414 ft. Recorder Number 13547 Cap. 4225

Bottom Recorder Depth (Outside) 4417 ft. Recorder Number 13552 Cap. 4050

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

Drilling Contractor Aldebaran Drlg. Rig #2 Drill Collar Length 560 I. D. 2 3/4 in.

Mud Type chemical Viscosity 58 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 14.7 cc. Drill Pipe Length 3803 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 41 ft. Size 5 1/2 OD in.

Did Well Flow? Yes Reversed Out Yes 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 flow periods. Gas to surface in five minutes on pre-flow.

See attached sheet for gas measurements.

Recovered ----- ft. of oil Gravity 40

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Remarks: Flowed oil in fifty minutes on second flow.

Time Set Packer(s) 11:00 ~~A.M.~~ P.M. Time Started Off Bottom 2:30 ~~A.M.~~ P.M. Maximum Temperature 122°

Initial Hydrostatic Pressure 2106 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 988 P.S.I. to (C) 1358 P.S.I.

Initial Closed In Period 60 Minutes (D) 1401 P.S.I.

Final Flow Period 60 Minutes (E) 1384 P.S.I. to (F) 1408 P.S.I.

Final Closed In Period 63 Minutes (G) 1415 P.S.I.

Final Hydrostatic Pressure 2106 (H) P.S.I.

GAS FLOW REPORT

Date 11/4/82 Ticket 18251 Company W. L. Kirkman, Inc.
 Well Name and No. Gibson #2 Dst No. 1 Interval Tested 4384'-4425'
 County Barber State Kansas Sec. 20 Twp. 30S Rg. 15W

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
Gas to surface in five minutes. PRE FLOW					
10 min.	10" of water	3/4" orifice			44,800 CFPD
20 min.					Flowed mud
30 min.					Flowed mud

SECOND FLOW					
10 min.					TOO SMALL TO MEASURE
20 min.					TOO SMALL TO MEASURE
30 min.	19" of water	1/4" orifice			7,320 CFPD
40 min.	5" of water	1/2" orifice			14,100 CFPD
50 min.	10" of water	1/2" orifice			19,900 CFPD
60 min.					Flowed oil in fifty minutes.

GAS BOTTLE

Serial No. ---- Date Bottle Filled ----- Date to be Invoiced 11//4/82

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 11½% 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.

COMPANY'S NAME W. L. Kirkman, Inc.
 Authorized by A. Siemans

WESTERN TESTING CO., INC.

Pressure Data

Date 11/4/82 Test Ticket No. 18251
 Recorder No. 13547 Capacity 4225 Location 4414 Ft.
 Clock No. --- Elevation ---- Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2106 P.S.I.	Open Tool	11:00A M	
B First Initial Flow Pressure	988 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	1358 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1401 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	1384 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	1408 P.S.I.			
G Final Closed-in Pressure	1415 P.S.I.			
H Final Hydrostatic Mud	2106 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>12</u> Inc.		Breakdown: <u>21</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>988</u>	<u>0</u>	<u>1358</u>	<u>0</u>	<u>1384</u>	<u>0</u>	<u>1408</u>
P 2 <u>5</u>	<u>988</u>	<u>3</u>	<u>1363</u>	<u>5</u>	<u>1393</u>	<u>3</u>	<u>1409</u>
P 3 <u>10</u>	<u>1048</u>	<u>6</u>	<u>1368</u>	<u>10</u>	<u>1398</u>	<u>6</u>	<u>1410</u>
P 4 <u>15</u>	<u>1193</u>	<u>9</u>	<u>1373</u>	<u>15</u>	<u>1401</u>	<u>9</u>	<u>1411</u>
P 5 <u>20</u>	<u>1291</u>	<u>12</u>	<u>1378</u>	<u>20</u>	<u>1403</u>	<u>12</u>	<u>1412</u>
P 6 <u>25</u>	<u>1338</u>	<u>15</u>	<u>1382</u>	<u>25</u>	<u>1404</u>	<u>15</u>	<u>1413</u>
P 7 <u>30</u>	<u>1358</u>	<u>18</u>	<u>1384</u>	<u>30</u>	<u>1405</u>	<u>18</u>	<u>1414</u>
P 8 _____		<u>21</u>	<u>1386</u>	<u>35</u>	<u>1406</u>	<u>21</u>	<u>1415</u>
P 9 _____		<u>24</u>	<u>1388</u>	<u>40</u>	<u>1407</u>	<u>24</u>	<u>1415</u>
P10 _____		<u>27</u>	<u>1390</u>	<u>45</u>	<u>1408</u>	<u>27</u>	<u>1415</u>
P11 _____		<u>30</u>	<u>1391</u>	<u>50</u>	<u>1408</u>	<u>30</u>	<u>1415</u>
P12 _____		<u>33</u>	<u>1392</u>	<u>55</u>	<u>1408</u>	<u>33</u>	<u>1415</u>
P13 _____		<u>36</u>	<u>1393</u>	<u>60</u>	<u>1408</u>	<u>36</u>	<u>1415</u>
P14 _____		<u>39</u>	<u>1394</u>			<u>39</u>	<u>1415</u>
P15 _____		<u>42</u>	<u>1395</u>			<u>42</u>	<u>1415</u>
P16 _____		<u>45</u>	<u>1396</u>			<u>45</u>	<u>1415</u>
P17 _____		<u>48</u>	<u>1397</u>			<u>48</u>	<u>1415</u>
P18 _____		<u>51</u>	<u>1398</u>			<u>51</u>	<u>1415</u>
P19 _____		<u>54</u>	<u>1399</u>			<u>54</u>	<u>1415</u>
P20 _____		<u>57</u>	<u>1400</u>			<u>57</u>	<u>1415</u>
		<u>60</u>	<u>1401</u>			<u>60</u>	<u>1415</u>

TKT # 18251

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 18304

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

Elevation 1744 KB Formation Viola Eff. Pay Ft.

District BATH

Date 11-5-82

Customer Order No.

COMPANY NAME W H Kirkman Inc

P.O. Box 18611

ADDRESS 453 South Webb Road

Wichita Kansas 67207

LEASE AND WELL NO. 2 Gibson

COUNTY Barber

STATE Kansas Sec. 20 Twp. 30s Rge. 15w

Mail Invoice To #2 GIBSON Same

No. Copies Requested 5

Co. Name

Address

Mail Charts To Same

No. Copies Requested 5

Address

Formation Test No. 2 Interval Tested From 4478 ft. to 4520 ft. Total Depth 4520 ft.

Packer Depth 4473 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in.

Packer Depth 4478 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4482 ft.

Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4485 ft.

Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth - ft.

Recorder Number - Cap. -

Drilling Contractor Aldebaran Rig 2

Drill Collar Length 560 I. D. 2 1/4 in.

Mud Type Viscosity 57

Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 19.3 cc.

Drill Pipe Length 3898 I. D. 3.8 in.

Chlorides 15,000 P.P.M.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number -

Anchor Length 42 ft. Size 5 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 steady blow on initial flow period
Weak to very weak blow on final flow

Recovered 40 ft. of Drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
NOV 9 - 1982
RECEIVED

Time On Location 7:30 A.M.

Time Pick Up Tool 9:30 A.M.

Time Off Location 5:00 P.M.

Time Set Packer(s) 11:15 A.M.

Time Started Off Bottom 2:15 A.M.

Maximum Temperature

Initial Hydrostatic Pressure (A) 2240 P.S.I.

Initial Flow Period Minutes 30 (B) 83 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 45 (D) 72 P.S.I.

Final Flow Period Minutes 45 (E) 52 P.S.I. to (F) 52 P.S.I.

Final Closed In Period Minutes 60 (G) 52 P.S.I.

Final Hydrostatic Pressure (H) 2188 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 of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test \$675
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$675

WESTERN TESTING CO., INC.

Pressure Data

Date 11-5 Recorder No. 2606 Capacity 4150 Test Ticket No. 18304
 Clock No. --- Elevation 1744 KB Location 4482 Well Temperature ---

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2240</u> P.S.I.		<u>11:15 A</u>	
B First Initial Flow Pressure	<u>64</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>64</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>77</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>59</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>59</u> P.S.I.			
G Final Closed-in Pressure	<u>64</u> P.S.I.			
H Final Hydrostatic Mud	<u>2169</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>22</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>64</u>	0	<u>64</u>	0	<u>59</u>	0	<u>59</u>
P 2 5		3	<u>63</u>	5		3	
P 3 10		6	<u>62</u>	10		6	
P 4 15		9	<u>61</u>	15		9	
P 5 20		12	<u>60</u>	20		12	
P 6 25		15	<u>60</u>	25		15	<u>59</u>
P 7 30	<u>64</u>	18	<u>60</u>	30		18	
P 8 35		21	<u>60</u>	35		21	
P 9 40		24	<u>61</u>	40		24	
P10 45		27	<u>62</u>	45	<u>59</u>	27	
P11 50		30	<u>63</u>	50		30	<u>59</u>
P12 55		33	<u>66</u>	55		33	
P13 60		36	<u>69</u>	60		36	
P14		39	<u>72</u>	65		39	
P15		42	<u>75</u>	70		42	
P16		45	<u>77</u>	75		45	<u>59</u>
P17		48		80		48	<u>59</u>
P18		51		85		51	<u>59</u>
P19		54		90		54	<u>60</u>
P20		57				57	<u>61</u>
		60				60	<u>62</u>
						63	<u>63</u>

Company W. L. Kirkman, Inc. Lease & Well No. #2 Gibson
 Elevation 1744 Kelly Bushing Formation Viola Effective Pay --- Ft. Ticket No. 18304
 Date 11/5/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas
 Test Approved by Allen G. Siemens Western Representative Rod Tritt
 Formation Test No. 2 Interval Tested from 4478 ft. to 4520 ft. Total Depth 4520 ft.
 Packer Depth 4473 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4478 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4482 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 4485 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Aldebaran Drlg. Rig #2 Drill Collar Length 560 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 57 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 19.3 cc. Drill Pipe Length 3898 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 42 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: Weak steady blow on initial flow period. Weak to very weak blow on final flow period.

Recovered 40 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:15 A.M. Time Started Off Bottom 2:15 P.M. Maximum Temperature --
 Initial Hydrostatic Pressure (A) 2240 P.S.I.
 Initial Flow Period Minutes 30 (B) 64 P.S.I. to (C) 64 P.S.I.
 Initial Closed In Period Minutes 45 (D) 77 P.S.I.
 Final Flow Period Minutes 45 (E) 59 P.S.I. to (F) 59 P.S.I.
 Final Closed In Period Minutes 66 (G) 64 P.S.I.
 Final Hydrostatic Pressure (H) 2169 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/5/82 Test Ticket No. 18304
 Recorder No. 2606 Capacity 4150 Location 4482 Ft.
 Clock No. -- Elevation 1744 Kelly Bushing Well Temperature --- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2240	P.S.I.	11:15A	M
B First Initial Flow Pressure	64	P.S.I.	30	Mins.
C First Final Flow Pressure	64	P.S.I.	45	Mins.
D Initial Closed-in Pressure	77	P.S.I.	45	Mins.
E Second Initial Flow Pressure	59	P.S.I.	60	Mins.
F Second Final Flow Pressure	59	P.S.I.		
G Final Closed-in Pressure	64	P.S.I.		
H Final Hydrostatic Mud	2169	P.S.I.		

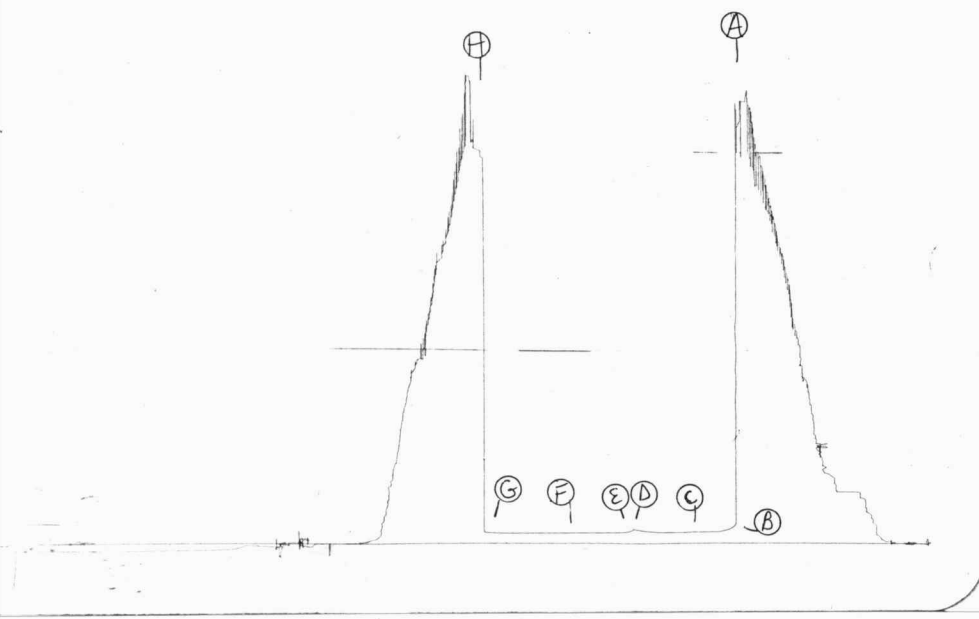
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>22</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>64</u>	<u>0</u>	<u>64</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>59</u>
P 2 <u>5</u>	<u>64</u>	<u>3</u>	<u>63</u>	<u>5</u>	<u>59</u>	<u>3</u>	<u>59</u>
P 3 <u>10</u>	<u>64</u>	<u>6</u>	<u>62</u>	<u>10</u>	<u>59</u>	<u>6</u>	<u>59</u>
P 4 <u>15</u>	<u>64</u>	<u>9</u>	<u>61</u>	<u>15</u>	<u>59</u>	<u>9</u>	<u>59</u>
P 5 <u>20</u>	<u>64</u>	<u>12</u>	<u>60</u>	<u>20</u>	<u>59</u>	<u>12</u>	<u>59</u>
P 6 <u>25</u>	<u>64</u>	<u>15</u>	<u>60</u>	<u>25</u>	<u>59</u>	<u>15</u>	<u>59</u>
P 7 <u>30</u>	<u>64</u>	<u>18</u>	<u>60</u>	<u>30</u>	<u>59</u>	<u>18</u>	<u>59</u>
P 8		<u>21</u>	<u>60</u>	<u>35</u>	<u>59</u>	<u>21</u>	<u>59</u>
P 9		<u>24</u>	<u>61</u>	<u>40</u>	<u>59</u>	<u>24</u>	<u>59</u>
P10		<u>27</u>	<u>62</u>	<u>45</u>	<u>59</u>	<u>27</u>	<u>59</u>
P11		<u>30</u>	<u>63</u>			<u>30</u>	<u>59</u>
P12		<u>33</u>	<u>66</u>			<u>33</u>	<u>59</u>
P13		<u>36</u>	<u>69</u>			<u>36</u>	<u>59</u>
P14		<u>39</u>	<u>72</u>			<u>39</u>	<u>59</u>
P15		<u>42</u>	<u>75</u>			<u>42</u>	<u>59</u>
P16		<u>45</u>	<u>77</u>			<u>45</u>	<u>59</u>
P17						<u>48</u>	<u>59</u>
P18						<u>51</u>	<u>59</u>
P19						<u>54</u>	<u>60</u>
P20						<u>57</u>	<u>61</u>
						<u>60</u>	<u>62</u>
						<u>63</u>	<u>63</u>
						<u>66</u>	<u>64</u>

2606 DST#2

TKT # 18304

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 18305

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

Elevation 1744 LB Formation Vol 17 Eff. Pay Ft.

District PRATT Date 11-5-82 Customer Order No.
COMPANY NAME W. L. Kirkman Inc. P.O. Box 18611
ADDRESS 453 South Webb Road Wichita Kansas 67207
LEASE AND WELL NO. 2 Gibson COUNTY Barber STATE Kans Sec. 20 Twp. 30S Rge. 15W
Mail Invoice To #2 GIBSON Same No. Copies Requested 5
Co. Name Address
Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 3 Interval Tested From 4530 ft. to 4560 ft. Total Depth 4560 ft.
Packer Depth 4525 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 4530 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set
Top Recorder Depth (Inside) 4534 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 4537 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth ft. Recorder Number Cap.
Drilling Contractor Aldebaran #2 Drill Collar Length 560 I. D. 2 1/4 in.
Mud Type Chemical Viscosity 57 Weight Pipe Length I. D. in.
Weight 9.5 Water Loss 19.3 cc. Drill Pipe Length 3950 I. D. 3.8 in.
Chlorides 15,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make NO Serial Number Anchor Length 30 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 x 1 1/2 in.

Blow: Strong blow on both the initial & final flow periods
no gas to surface
Recovered 150 ft. of Heavy oil & gas cut mud
Recovered 180 ft. of froggy oil
Recovered 380 ft. of gassy oil
Recovered ft. of
Recovered 180 ft. of Water (oil & gas cut) 62,000 P.P.M.
Remarks:

Time On Location 2:00 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location 12:00 Noon A.M.
Time Set Packer(s) 5:30 A.M. Time Started Off Bottom 8:00 A.M. Maximum Temperature 125
Initial Hydrostatic Pressure 2397 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 156 P.S.I. to (C) 239 P.S.I.
Initial Closed In Period 45 Minutes (D) 1506 P.S.I.
Final Flow Period 30 Minutes (E) 312 P.S.I. to (F) 343 P.S.I.
Final Closed In Period 45 Minutes (G) 1485 P.S.I.
Final Hydrostatic Pressure 2344 P.S.I. (H)

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 Allen G. Siemens
Signature of Customer or his authorized representative

Western Representative Red Little Thank you.

FIELD INVOICE

Open Hole Test 675
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL 675

WESTERN TESTING CO., INC.

Pressure Data

Date 11-5 Test Ticket No. 18305
 Recorder No. 2606 Capacity 4150 Location 4534 Ft
 Clock No. --- Elevation 1744 KB Well Temperature 125 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2268</u>	P.S.I.		<u>5:30</u> A	
B First Initial Flow Pressure <u>156</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>234</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>48</u> Mins.
D Initial Closed-in Pressure <u>1505</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure <u>311</u>	P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure <u>339</u>	P.S.I.			
G Final Closed-in Pressure <u>1477</u>	P.S.I.			
H Final Hydrostatic Mud <u>2247</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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 0	<u>156</u>	0	<u>234</u>	0	<u>311</u>	0	<u>339</u>
P 2 5	<u>162</u>	3	<u>904</u>	5	<u>311</u>	3	<u>1164</u>
P 3 10	<u>187</u>	6	<u>1226</u>	10	<u>311</u>	6	<u>1265</u>
P 4 15	<u>216</u>	9	<u>1312</u>	15	<u>314</u>	9	<u>1323</u>
P 5 20	<u>224</u>	12	<u>1356</u>	20	<u>320</u>	12	<u>1356</u>
P 6 25	<u>227</u>	15	<u>1391</u>	25	<u>331</u>	15	<u>1377</u>
P 7 30	<u>234</u>	18	<u>1415</u>	30	<u>339</u>	18	<u>1397</u>
P 8 35		21	<u>1432</u>	35		21	<u>1413</u>
P 9 40		24	<u>1448</u>	40		24	<u>1426</u>
P10 45		27	<u>1460</u>	45		27	<u>1438</u>
P11 50		30	<u>1470</u>	50		30	<u>1445</u>
P12 55		33	<u>1477</u>	55		33	<u>1452</u>
P13 60		36	<u>1484</u>	60		36	<u>1459</u>
P14		39	<u>1491</u>	65		39	<u>1465</u>
P15		42	<u>1497</u>	70		42	<u>1471</u>
P16		45	<u>1503</u>	75		45	<u>1477</u>
P17		48	<u>1505</u>	80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

Company W. L. Kirkman, Inc. Lease & Well No. #2 Gibson
Elevation 1744 Kelly Bushing Formation Viola Effective Pay --- Ft. Ticket No. 18305
Date 11/5/82 Sec. 20 Twp. 30S Range 15W County Barber State Kansas
Test Approved by Allen G. Siemens Western Representative Rod Tritt
Formation Test No. 3 Interval Tested from 4530 ft. to 4560 ft. Total Depth 4560 ft.
Packer Depth 4525 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4530 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4534 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 4537 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Aldebaran Drllg. Rig #2 Drill Collar Length 560 I. D. 2 1/4 in.
Mud Type chemical Viscosity 57 Weight Pipe Length - I. D. - in.
Weight 9.5 Water Loss 19.3 cc. Drill Pipe Length 3950 I. D. 3.8 in.
Chlorides 15,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 30 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 on both the initial and final flow periods. No gas to surface

Recovered 150 ft. of heavy oil and gas cut mud
Recovered 180 ft. of froggy oil
Recovered 380 ft. of gassy oil
Recovered 180 ft. of water (oil and gas cut) Chlorides 62,000 ppm
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:30 A.M. Time Started Off Bottom 8:00 A.M. Maximum Temperature 125°
Initial Hydrostatic Pressure 2268 P.S.I.
Initial Flow Period 30 Minutes (B) 156 P.S.I. to (C) 234 P.S.I.
Initial Closed In Period 48 Minutes (D) 1505 P.S.I.
Final Flow Period 30 Minutes (E) 311 P.S.I. to (F) 339 P.S.I.
Final Closed In Period 45 Minutes (G) 1477 P.S.I.
Final Hydrostatic Pressure 2247 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 11/5/82 Test Ticket No. 18305
 Recorder No. 2606 Capacity 4150 Location 4534 Ft.
 Clock No. -- Elevation 1744 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2268	P.S.I.	5:30A	M
B First Initial Flow Pressure	156	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	234	P.S.I.	45	Mins. 48 Mins.
D Initial Closed-in Pressure	1505	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	311	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	339	P.S.I.		
G Final Closed-in Pressure	1477	P.S.I.		
H Final Hydrostatic Mud	2247	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>16</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>156</u>	<u>0</u>	<u>234</u>	<u>0</u>	<u>311</u>	<u>0</u>	<u>339</u>
P 2 <u>5</u>	<u>162</u>	<u>3</u>	<u>904</u>	<u>5</u>	<u>311</u>	<u>3</u>	<u>1164</u>
P 3 <u>10</u>	<u>187</u>	<u>6</u>	<u>1226</u>	<u>10</u>	<u>311</u>	<u>6</u>	<u>1265</u>
P 4 <u>15</u>	<u>216</u>	<u>9</u>	<u>1312</u>	<u>15</u>	<u>314</u>	<u>9</u>	<u>1323</u>
P 5 <u>20</u>	<u>224</u>	<u>12</u>	<u>1356</u>	<u>20</u>	<u>320</u>	<u>12</u>	<u>1356</u>
P 6 <u>25</u>	<u>227</u>	<u>15</u>	<u>1391</u>	<u>25</u>	<u>331</u>	<u>15</u>	<u>1377</u>
P 7 <u>30</u>	<u>234</u>	<u>18</u>	<u>1415</u>	<u>30</u>	<u>339</u>	<u>18</u>	<u>1397</u>
P 8		<u>21</u>	<u>1432</u>			<u>21</u>	<u>1413</u>
P 9		<u>24</u>	<u>1448</u>			<u>24</u>	<u>1426</u>
P10		<u>27</u>	<u>1460</u>			<u>27</u>	<u>1438</u>
P11		<u>30</u>	<u>1470</u>			<u>30</u>	<u>1445</u>
P12		<u>33</u>	<u>1477</u>			<u>33</u>	<u>1452</u>
P13		<u>36</u>	<u>1484</u>			<u>36</u>	<u>1459</u>
P14		<u>39</u>	<u>1491</u>			<u>39</u>	<u>1465</u>
P15		<u>42</u>	<u>1497</u>			<u>42</u>	<u>1471</u>
P16		<u>45</u>	<u>1503</u>			<u>45</u>	<u>1477</u>
P17		<u>48</u>	<u>1505</u>				
P18							
P19							
P20							

2606 DST#3

TKT # 18305

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