



Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Rains & Williamson Oil Company, Inc. Lease & Well No. Steckel "D" #2
 Elevation 1676 Derrick Floor Formation Lansing Effective Pay - Ft. Ticket No. 14619
 Date 11/ 21/81 Sec. 7 Twp. 12S Range 14W Country Russell State Kansas
 Test Approved by Dave Calvert Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 2852 ft. to 2895 ft. Total Depth 2895 ft.
 Packer Depth 2847 ft. Size 6 5/8 in. Packer Depth 2852 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2885 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 2888 ft. Recorder Number 1049 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Rig #4 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 36 Weight Pipe Length - I. D. - in.
 Weight 10.0 Water Loss 12.0 cc. Drill Pipe Length 2830 I. D. 3.8 in.
 Chlorides 75,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 43 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 XH in.

Blow: Steady one inch throughout initial flow period. Weak throughout final flow period.

Recovered 60 ft. of gas in pipe
 Recovered 120 ft. of gas cut mud with trace of oil
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks:

Time Set Packer(s) 1:58 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 97°
 Initial Hydrostatic Pressure (A) 1592 P.S.I.
 Initial Flow Period Minutes 30 (B) 47 P.S.I. to (C) 57 P.S.I.
 Initial Closed In Period Minutes 27 (D) 339 P.S.I.
 Final Flow Period Minutes 60 (E) 70 P.S.I. to (F) 89 P.S.I.
 Final Closed In Period Minutes 30 (G) 327 P.S.I.
 Final Hydrostatic Pressure (H) 1592 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/21/81

Test Ticket No. 14619

Recorder No. 3474

Capacity 3000

Location 2885 Ft.

Clock No. - Elevation 1676 Derrick Floor

Well Temperature 97 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1592</u>	P.S.I.	Open Tool	<u>1:58A</u> M	
B First Initial Flow Pressure	<u>47</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>57</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>339</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>70</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>89</u>	P.S.I.			
G Final Closed-in Pressure	<u>327</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1592</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: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

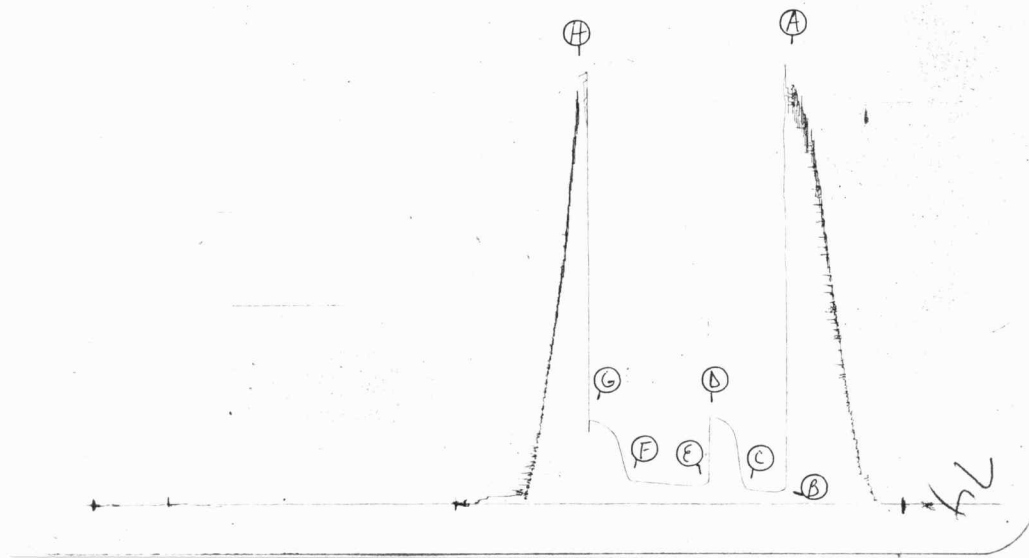
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>47</u>	<u>0</u>	<u>57</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>89</u>
P 2	<u>5</u>	<u>47</u>	<u>3</u>	<u>85</u>	<u>5</u>	<u>70</u>	<u>3</u>	<u>120</u>
P 3	<u>10</u>	<u>47</u>	<u>6</u>	<u>183</u>	<u>10</u>	<u>70</u>	<u>6</u>	<u>180</u>
P 4	<u>15</u>	<u>49</u>	<u>9</u>	<u>268</u>	<u>15</u>	<u>71</u>	<u>9</u>	<u>239</u>
P 5	<u>20</u>	<u>52</u>	<u>12</u>	<u>300</u>	<u>20</u>	<u>73</u>	<u>12</u>	<u>271</u>
P 6	<u>25</u>	<u>55</u>	<u>15</u>	<u>315</u>	<u>25</u>	<u>75</u>	<u>15</u>	<u>289</u>
P 7	<u>30</u>	<u>57</u>	<u>18</u>	<u>324</u>	<u>30</u>	<u>77</u>	<u>18</u>	<u>302</u>
P 8			<u>21</u>	<u>330</u>	<u>35</u>	<u>79</u>	<u>21</u>	<u>311</u>
P 9			<u>24</u>	<u>336</u>	<u>40</u>	<u>82</u>	<u>24</u>	<u>320</u>
P10			<u>27</u>	<u>339</u>	<u>45</u>	<u>85</u>	<u>27</u>	<u>323</u>
P11					<u>50</u>	<u>87</u>	<u>30</u>	<u>327</u>
P12					<u>55</u>	<u>88</u>		
P13					<u>60</u>	<u>89</u>		
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 14619

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1592	1592	PSI
(B) First Initial Flow Pressure	53	47	PSI
(C) First Final Flow Pressure	53	57	PSI
(D) Initial Closed-in Pressure	338	339	PSI
(E) Second Initial Flow Pressure	69	70	PSI
(F) Second Final Flow Pressure	84	89	PSI
(G) Final Closed-in Pressure	330	327	PSI
(H) Final Hydrostatic Mud	1592	1592	PSI



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Company Rains & Williamson Oil Company, Inc. Lease & Well No. Steckel "D" #2
Elevation 1676 Derrick Floor Formation Kansas City Effective Pay - Ft. Ticket No. 14620
Date 11/21 /81 Sec. 7 Twp. 12S Range 14W County Russell State Kansas
Test Approved by Dave Calvert Western Representative Denis Wondra

Formation Test No. 2 Interval Tested from 2907 ft. to 2946 ft. Total Depth 2946 ft.
Packer Depth 2902 ft. Size 6 5/8 in. Packer Depth 2907 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2936 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 2939 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Rig #4 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 36 Weight Pipe Length - I. D. - in.
Weight 10.0 Water Loss 12.0 Drill Pipe Length 2885 I. D. 3.8 in.
Chlorides 75,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD
Jars: Make - Serial Number - Anchor Length 39 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 XH in.

Blow: Very weak; died in fifteen minutes on initial flow period. No blow on final flow period.

Recovered 10 ft. of mud with few spots of oil
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 7:13 A.M. P.M. Time Started Off Bottom 9:15 A.M. P.M. Maximum Temperature 98°
Initial Hydrostatic Pressure 1631 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 37 P.S.I. to (C) 38 P.S.I.
Initial Closed In Period 30 Minutes (D) 389 P.S.I.
Final Flow Period 30 Minutes (E) 44 P.S.I. to (F) 45 P.S.I.
Final Closed In Period 30 Minutes (G) 385 P.S.I.
Final Hydrostatic Pressure 1631 P.S.I. (H)

WESTERN TESTING CO., INC.

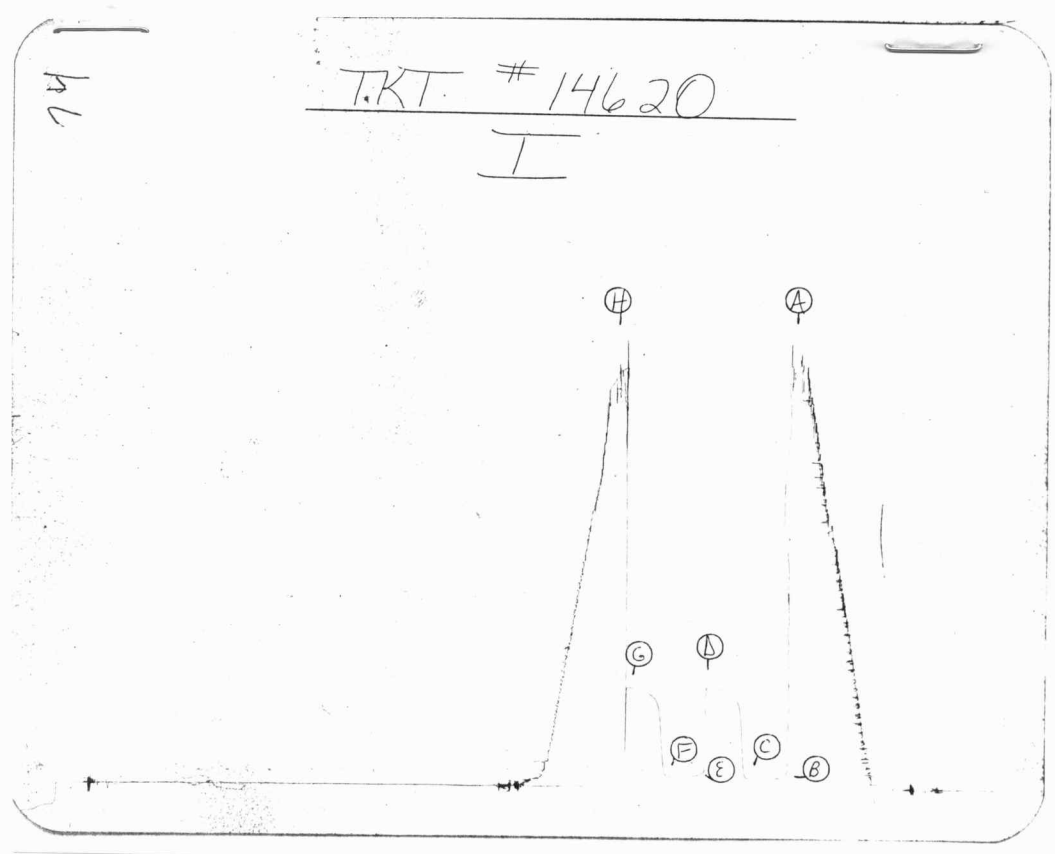
Pressure Data

Date 11/21/81 Test Ticket No. 14620
 Recorder No. 3474 Capacity 3000 Location 2936 Ft.
 Clock No. - Elevation 1676 Derrick Floor Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	1631	P.S.I.	7:13P	M
B. First Initial Flow Pressure	37	P.S.I.	30	30 Mins.
C. First Final Flow Pressure	38	P.S.I.	30	30 Mins.
D. Initial Closed-in Pressure	389	P.S.I.	30	30 Mins.
E. Second Initial Flow Pressure	44	P.S.I.	30	30 Mins.
F. Second Final Flow Pressure	45	P.S.I.	30	30 Mins.
G. Final Closed-in Pressure	385	P.S.I.		
H. Final Hydrostatic Mud	1631	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>6</u> mins. and a		of <u>10</u> mins. and a		of <u>6</u> mins. and a		of <u>10</u> mins. and a	
	final inc. of <u>5</u> Min.		final inc. of <u>3</u> Min.		final inc. of <u>5</u> Min.		final inc. of <u>3</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>37</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>45</u>	
P 2 <u>5</u>	<u>37</u>	<u>3</u>	<u>179</u>	<u>5</u>	<u>44</u>	<u>3</u>	<u>130</u>	
P 3 <u>10</u>	<u>37</u>	<u>6</u>	<u>323</u>	<u>10</u>	<u>44</u>	<u>6</u>	<u>309</u>	
P 4 <u>15</u>	<u>37</u>	<u>9</u>	<u>348</u>	<u>15</u>	<u>44</u>	<u>9</u>	<u>344</u>	
P 5 <u>20</u>	<u>37</u>	<u>12</u>	<u>362</u>	<u>20</u>	<u>44</u>	<u>12</u>	<u>358</u>	
P 6 <u>25</u>	<u>37</u>	<u>15</u>	<u>370</u>	<u>25</u>	<u>44</u>	<u>15</u>	<u>367</u>	
P 7 <u>30</u>	<u>38</u>	<u>18</u>	<u>377</u>	<u>30</u>	<u>45</u>	<u>18</u>	<u>374</u>	
P 8		<u>21</u>	<u>382</u>			<u>21</u>	<u>379</u>	
P 9		<u>24</u>	<u>386</u>			<u>24</u>	<u>382</u>	
P10		<u>27</u>	<u>388</u>			<u>27</u>	<u>384</u>	
P11		<u>30</u>	<u>389</u>			<u>30</u>	<u>385</u>	
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1631	1631	PSI
(B) First Initial Flow Pressure	30	37	PSI
(C) First Final Flow Pressure	38	38	PSI
(D) Initial Closed-in Pressure	392	389	PSI
(E) Second Initial Flow Pressure	38	44	PSI
(F) Second Final Flow Pressure	38	45	PSI
(G) Final Closed-in Pressure	384	385	PSI
(H) Final Hydrostatic Mud	1631	1631	PSI



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Company Rains & Williamson Oil Company, Inc. Lease & Well No. Steckel "D" #2
 Elevation 1676 Derrick Floor Formation Kansas City Effective Pay - Ft. Ticket No. 14621
 Date 11/22 /81 Sec. 7 Twp. 12S Range 14W County Russell State Kansas
 Test Approved by Dave Calvert Western Representative Denis Wondra

Formation Test No. 3 Interval Tested from 2973 ft. to 3017 ft. Total Depth 3017 ft.
 Packer Depth 2968 ft. Size 6 5/8 in. Packer Depth 2973 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3007 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 3010 ft. Recorder Number 1049 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Rig #4 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 12.0 cc. Drill Pipe Length 2951 I. D. 3.8 in.
 Chlorides 61,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD
 Jars: Make - Serial Number - Anchor Length 44 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 XH in.

Blow: Fair; increased to good in fifteen minutes on initial flow period. Good throughout final flow period.

Recovered 180 ft. of gas in pipe
 Recovered 60 ft. of heavily oil and gas cut mud (35% mud;10% water;55% oil)
 Recovered 30 ft. of oil and gas cut mud
 Recovered 120 ft. of slightly oil and gas cut watery mud (75% mud;20% water;5% oil)
 Recovered - ft. of Chlorides 60,000 ppm

Remarks: _____

Time Set Packer(s) 11:28 ~~P.M.~~ A.M. Time Started Off Bottom 2:00 ~~P.M.~~ A.M. Maximum Temperature 98°
 Initial Hydrostatic Pressure (A) 1694 P.S.I.
 Initial Flow Period Minutes 30 (B) 53 P.S.I. to (C) 70 P.S.I.
 Initial Closed In Period Minutes 27 (D) 358 P.S.I.
 Final Flow Period Minutes 60 (E) 91 P.S.I. to (F) 123 P.S.I.
 Final Closed In Period Minutes 27 (G) 350 P.S.I.
 Final Hydrostatic Pressure (H) 1683 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 11/22/81

Test Ticket No. 14621

Recorder No. 3474

Capacity 3000

Location 3007 Ft.

Clock No. -

Elevation 1676 Derrick Floor

Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1694</u> P.S.I.	Open Tool	<u>11:28A</u> M	
B First Initial Flow Pressure	<u>53</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>70</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>358</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>91</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>123</u> P.S.I.			
G Final Closed-in Pressure	<u>350</u> P.S.I.			
H Final Hydrostatic Mud	<u>1683</u> P.S.I.			

PRESSURE BREAKDOWN

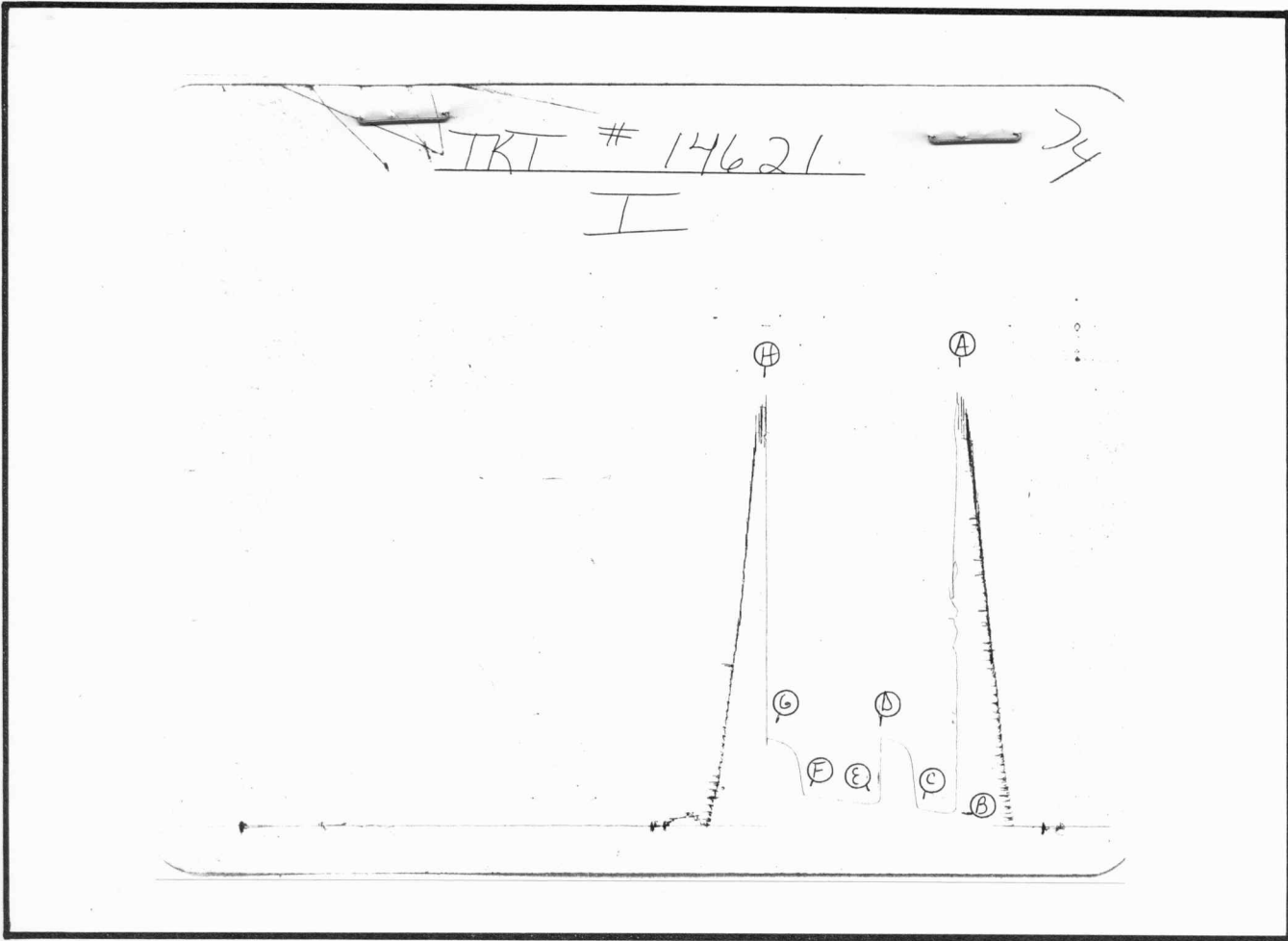
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 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: 9 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>53</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>91</u>	<u>0</u>	<u>123</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>174</u>	<u>5</u>	<u>91</u>	<u>3</u>	<u>218</u>
P 3 <u>10</u>	<u>54</u>	<u>6</u>	<u>280</u>	<u>10</u>	<u>91</u>	<u>6</u>	<u>282</u>
P 4 <u>15</u>	<u>57</u>	<u>9</u>	<u>314</u>	<u>15</u>	<u>92</u>	<u>9</u>	<u>308</u>
P 5 <u>20</u>	<u>62</u>	<u>12</u>	<u>327</u>	<u>20</u>	<u>96</u>	<u>12</u>	<u>321</u>
P 6 <u>25</u>	<u>67</u>	<u>15</u>	<u>336</u>	<u>25</u>	<u>100</u>	<u>15</u>	<u>332</u>
P 7 <u>30</u>	<u>70</u>	<u>18</u>	<u>344</u>	<u>30</u>	<u>105</u>	<u>18</u>	<u>338</u>
P 8 _____	_____	<u>21</u>	<u>348</u>	<u>35</u>	<u>108</u>	<u>21</u>	<u>342</u>
P 9 _____	_____	<u>24</u>	<u>355</u>	<u>40</u>	<u>111</u>	<u>24</u>	<u>347</u>
P10 _____	_____	<u>27</u>	<u>358</u>	<u>45</u>	<u>114</u>	<u>27</u>	<u>350</u>
P11 _____	_____	_____	_____	<u>50</u>	<u>118</u>	_____	_____
P12 _____	_____	_____	_____	<u>55</u>	<u>121</u>	_____	_____
P13 _____	_____	_____	_____	<u>60</u>	<u>123</u>	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1707	1694	PSI
(B) First Initial Flow Pressure	53	53	PSI
(C) First Final Flow Pressure	69	70	PSI
(D) Initial Closed-in Pressure	361	358	PSI
(E) Second Initial Flow Pressure	92	91	PSI
(F) Second Final Flow Pressure	123	123	PSI
(G) Final Closed-in Pressure	353	350	PSI
(H) Final Hydrostatic Mud	1699	1683	PSI



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Company Rains & Williamson Oil Company, Inc. Lease & Well No. Steckel "D" #2
 Elevation 1676 Derrick Floor Formation Kansas City Effective Pay - Ft. Ticket No. 14622
 Date 11/23/81 Sec. 7 Twp. 12S Range 14W County Russell State Kansas
 Test Approved by Dave Calvert Western Representative Denis Wondra

Formation Test No. 4 Interval Tested from 3029 ft. to 3070 ft. Total Depth 3070 ft.

Packer Depth 3024 ft. Size 6 5/8 in. Packer Depth 3029 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3060 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 3063 ft. Recorder Number 1049 Cap. 4150

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

Drilling Contractor Rains & Williamson Drlg. Rig #4 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 12.0 cc. Drill Pipe Length 3007 I. D. 3.8 in.

Chlorides 61,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD

Jars: Make - Serial Number - Anchor Length 41 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 XH in.

Blow: Very weak; died in ten minutes on initial flow period. No blow on final flow period.

Recovered 25 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:28 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 5:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 99°

Initial Hydrostatic Pressure 1707 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 38 P.S.I. to (C) 38 P.S.I.

Initial Closed In Period 27 Minutes (D) 44 P.S.I.

Final Flow Period 30 Minutes (E) 41 P.S.I. to (F) 41 P.S.I.

Final Closed In Period 27 Minutes (G) 47 P.S.I.

Final Hydrostatic Pressure 1700 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 11/23/81

Test Ticket No. 14622

Recorder No. 3474

Capacity 3000

Location 3060 Ft.

Clock No. -

Elevation 1676 Derrick Floor

Well Temperature 99 °F

Point	Pressure			Time	
				Given	Computed
A Initial Hydrostatic Mud	<u>1707</u>	P.S.I.	Open Tool	<u>3:28A</u>	<u>M</u>
B First Initial Flow Pressure	<u>38</u>	P.S.I.	First Flow Pressure	<u>30</u>	Mins. <u>30</u> Mins.
C First Final Flow Pressure	<u>38</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u>	Mins. <u>27</u> Mins.
D Initial Closed-in Pressure	<u>44</u>	P.S.I.	Second Flow Pressure	<u>30</u>	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	Final Closed-in Pressure	<u>30</u>	Mins. <u>27</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.			
G Final Closed-in Pressure	<u>47</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1700</u>	P.S.I.			

PRESSURE BREAKDOWN

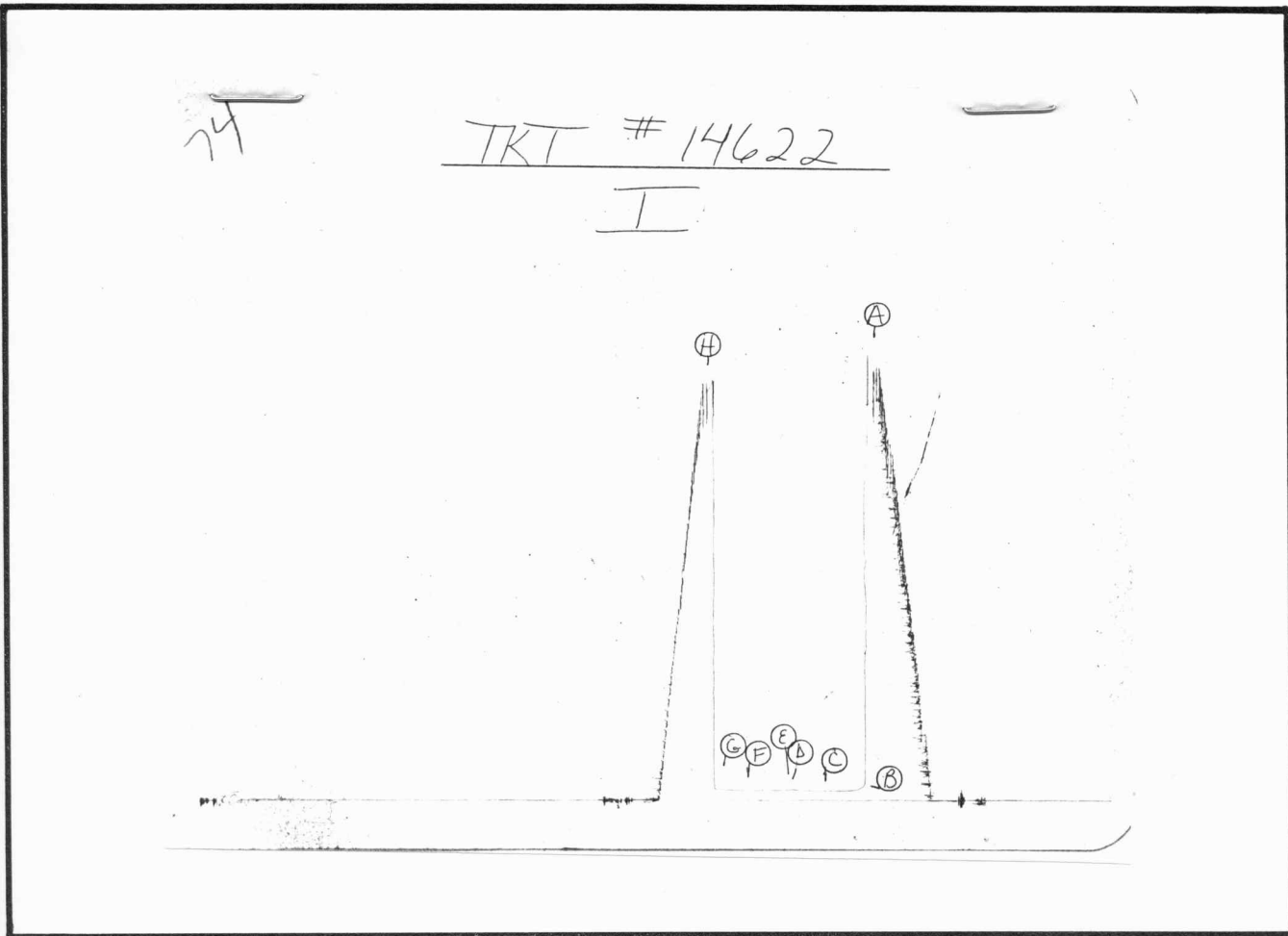
First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 9 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>38</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>41</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>38</u>	<u>5</u>	<u>41</u>	<u>3</u>	<u>41</u>
P 3 <u>10</u>	<u>38</u>	<u>6</u>	<u>38</u>	<u>10</u>	<u>41</u>	<u>6</u>	<u>41</u>
P 4 <u>15</u>	<u>38</u>	<u>9</u>	<u>39</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>41</u>
P 5 <u>20</u>	<u>38</u>	<u>12</u>	<u>40</u>	<u>20</u>	<u>41</u>	<u>12</u>	<u>42</u>
P 6 <u>25</u>	<u>38</u>	<u>15</u>	<u>41</u>	<u>25</u>	<u>41</u>	<u>15</u>	<u>43</u>
P 7 <u>30</u>	<u>38</u>	<u>18</u>	<u>42</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>44</u>
P 8 _____	_____	<u>21</u>	<u>43</u>	_____	_____	<u>21</u>	<u>45</u>
P 9 _____	_____	<u>24</u>	<u>44</u>	_____	_____	<u>24</u>	<u>46</u>
P10 _____	_____	<u>27</u>	<u>44</u>	_____	_____	<u>27</u>	<u>47</u>
P11 _____	_____	_____	_____	_____	_____	_____	_____
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1714	1707	PSI
(B) First Initial Flow Pressure	38	38	PSI
(C) First Final Flow Pressure	38	38	PSI
(D) Initial Closed-in Pressure	46	44	PSI
(E) Second Initial Flow Pressure	38	41	PSI
(F) Second Final Flow Pressure	38	41	PSI
(G) Final Closed-in Pressure	46	47	PSI
(H) Final Hydrostatic Mud	1707	1700	PSI