



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company K & E Petroleum, Inc. Lease & Well No. #1 Jacobs
Elevation 1784 Kelly Bushing Location Kansas City Effective Pay - Ft. Ticket No. 12497
Date 10/10/81 Sec. 12 Twp. 13S Range 15W County Russell State Kansas
Test Approved by Tim Priest Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 2930 ft. to 2992 ft. Total Depth 2992 ft.

Packer Depth 2925 ft. Size 6 5/8 in. Packer Depth 2930 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) 2982 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 3985 ft. Recorder Number 1049 Cap. 4150

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

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

Mud Type Starch Viscosity 40 Weight Pipe Length 540 I. D. 2.8 in.

Weight 9.7 Water Loss 17.6 cc. Drill Pipe Length 2368 I. D. 3.8 in.

Chlorides 60,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 62 ft. Size 5 1/2 OD in.

Did Well Flow? - 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 very good in 15 minutes on initial flow period. Very good throughout final flow period.

Recovered 120 ft. of watery mud

Recovered 300 ft. of muddy water Chlorides 78,000 PPM

Recovered - ft. of trace of oil on top of tool

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:28 A.M. Time Started Off Bottom 2:00 P.M. Maximum Temperature 98

Initial Hydrostatic Pressure (A) 1563 P.S.I.

Initial Flow Period Minutes 45 (B) 73 P.S.I. to (C) 189 P.S.I.

Initial Closed In Period Minutes 45 (D) 523 P.S.I.

Final Flow Period Minutes 60 (E) 217 P.S.I. to (F) 308 P.S.I.

Final Closed In Period Minutes 54 (G) 523 P.S.I.

Final Hydrostatic Pressure (H) 1541 P.S.I.

WESTERN TESTING CO., INC.

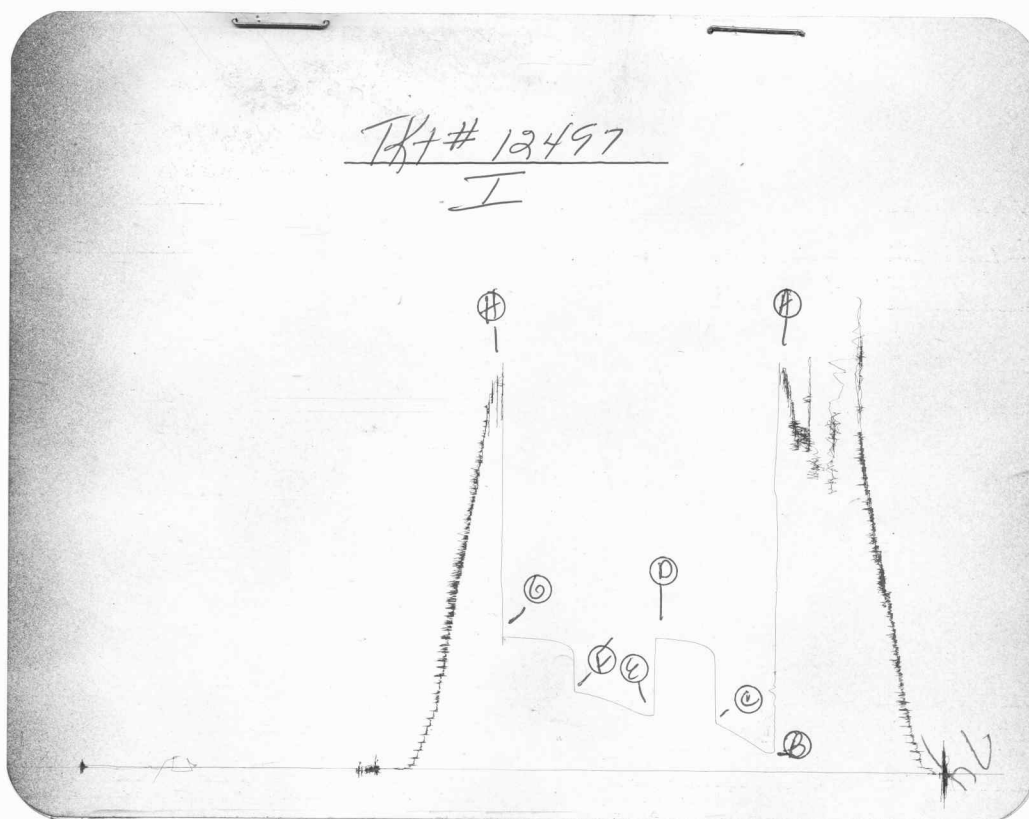
Pressure Data

Date 10/10/81 Test Ticket No. 12497
 Recorder No. 3474 Capacity 3000 Location 2982 Ft.
 Clock No. - Elevation 1784 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1563</u>	P.S.I.	<u>10:28P</u>	<u>M</u>
B First Initial Flow Pressure	<u>73</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>189</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>523</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>217</u>	P.S.I.	<u>60</u>	<u>54</u> Mins.
F Second Final Flow Pressure	<u>308</u>	P.S.I.		
G Final Closed-in Pressure	<u>523</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1541</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>18</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>73</u>	<u>0</u>	<u>189</u>	<u>0</u>	<u>217</u>	<u>0</u>	<u>308</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>474</u>	<u>5</u>	<u>218</u>	<u>3</u>	<u>482</u>
P 3 <u>10</u>	<u>88</u>	<u>6</u>	<u>488</u>	<u>10</u>	<u>223</u>	<u>6</u>	<u>492</u>
P 4 <u>15</u>	<u>106</u>	<u>9</u>	<u>495</u>	<u>15</u>	<u>233</u>	<u>9</u>	<u>500</u>
P 5 <u>20</u>	<u>121</u>	<u>12</u>	<u>502</u>	<u>20</u>	<u>247</u>	<u>12</u>	<u>505</u>
P 6 <u>25</u>	<u>138</u>	<u>15</u>	<u>506</u>	<u>25</u>	<u>258</u>	<u>15</u>	<u>508</u>
P 7 <u>30</u>	<u>153</u>	<u>18</u>	<u>508</u>	<u>30</u>	<u>268</u>	<u>18</u>	<u>510</u>
P 8 <u>35</u>	<u>168</u>	<u>21</u>	<u>510</u>	<u>35</u>	<u>278</u>	<u>21</u>	<u>512</u>
P 9 <u>40</u>	<u>180</u>	<u>24</u>	<u>512</u>	<u>40</u>	<u>286</u>	<u>24</u>	<u>514</u>
P10 <u>45</u>	<u>189</u>	<u>27</u>	<u>514</u>	<u>45</u>	<u>294</u>	<u>27</u>	<u>515</u>
P11		<u>30</u>	<u>516</u>	<u>50</u>	<u>300</u>	<u>30</u>	<u>516</u>
P12		<u>33</u>	<u>518</u>	<u>55</u>	<u>305</u>	<u>33</u>	<u>517</u>
P13		<u>36</u>	<u>520</u>	<u>60</u>	<u>308</u>	<u>36</u>	<u>518</u>
P14		<u>39</u>	<u>521</u>			<u>39</u>	<u>519</u>
P15		<u>42</u>	<u>522</u>			<u>42</u>	<u>520</u>
P16		<u>45</u>	<u>523</u>			<u>45</u>	<u>521</u>
P17						<u>48</u>	<u>522</u>
P18						<u>51</u>	<u>523</u>
P19						<u>54</u>	<u>523</u>
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1585	1563	PSI
(B) First Initial Flow Pressure	69	73	PSI
(C) First Final Flow Pressure	184	189	PSI
(D) Initial Closed-in Pressure	522	523	PSI
(E) Second Initial Flow Pressure	215	217	PSI
(F) Second Final Flow Pressure	307	308	PSI
(G) Final Closed-in Pressure	530	523	PSI
(H) Final Hydrostatic Mud	1577	1541	PSI



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Company K & E Petroleum, Inc. Lease & Well No. #1 Jacobs
Elevation 1784 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 12498
Date 10/11/81 Sec. 12 Twp. 13S Range 15W County Russell State Kansas
Test Approved by Tim Priest Western Representative Denis Wondra
Formation Test No. 2 Interval Tested from 2990 ft. to 3010 ft. Total Depth 3010 ft.
Packer Depth 2985 ft. Size 6 5/8 in. Packer Depth 2990 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) 3000 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3003 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Abercrombie Drilling Rig #3 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 40 Weight Pipe Length 540 I. D. 2.7 in.
Weight 9.7 Water Loss 17.6 cc. Drill Pipe Length 2428 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 20 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. Very weak throughout final flow period.

Recovered 65 ft. of muddy water

Recovered 120 ft. of salt water Chlorides 88,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:38 A.M. Time Started Off Bottom 3:10 P.M. Maximum Temperature 109
Initial Hydrostatic Pressure (A) 1570 P.S.I.
Initial Flow Period Minutes 45 (B) 38 P.S.I. to (C) 65 P.S.I.
Initial Closed In Period Minutes 60 (D) 538 P.S.I.
Final Flow Period Minutes 70 (E) 85 P.S.I. to (F) 124 P.S.I.
Final Closed In Period Minutes 90 (G) 532 P.S.I.
Final Hydrostatic Pressure (H) 1552 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10/11/81 Test Ticket No. 12498
 Recorder No. 3474 Capacity 3000 Location 3000 Ft.
 Clock No. - Elevation 1784 Kelly Bushing Well Temperature 109 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1570</u> P.S.I.	Open Tool	<u>10:38A</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>65</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>538</u> P.S.I.	Second Flow Pressure	<u>75</u> Mins.	<u>70</u> Mins.
E Second Initial Flow Pressure	<u>85</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>124</u> P.S.I.			
G Final Closed-in Pressure	<u>532</u> P.S.I.			
H Final Hydrostatic Mud	<u>1552</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>30</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>38</u>	<u>0</u>	<u>65</u>	<u>0</u>	<u>85</u>	<u>0</u>	<u>124</u>
P 2 <u>5</u>	<u>38</u>	<u>3</u>	<u>356</u>	<u>5</u>	<u>85</u>	<u>3</u>	<u>295</u>
P 3 <u>10</u>	<u>38</u>	<u>6</u>	<u>389</u>	<u>10</u>	<u>85</u>	<u>6</u>	<u>454</u>
P 4 <u>15</u>	<u>38</u>	<u>9</u>	<u>412</u>	<u>15</u>	<u>86</u>	<u>9</u>	<u>488</u>
P 5 <u>20</u>	<u>40</u>	<u>12</u>	<u>426</u>	<u>20</u>	<u>90</u>	<u>12</u>	<u>496</u>
P 6 <u>25</u>	<u>45</u>	<u>15</u>	<u>456</u>	<u>25</u>	<u>94</u>	<u>15</u>	<u>500</u>
P 7 <u>30</u>	<u>51</u>	<u>18</u>	<u>470</u>	<u>30</u>	<u>97</u>	<u>18</u>	<u>504</u>
P 8 <u>35</u>	<u>57</u>	<u>21</u>	<u>480</u>	<u>35</u>	<u>102</u>	<u>21</u>	<u>507</u>
P 9 <u>40</u>	<u>62</u>	<u>24</u>	<u>500</u>	<u>40</u>	<u>105</u>	<u>24</u>	<u>510</u>
P10 <u>45</u>	<u>65</u>	<u>27</u>	<u>515</u>	<u>45</u>	<u>108</u>	<u>27</u>	<u>512</u>
P11		<u>30</u>	<u>524</u>	<u>50</u>	<u>112</u>	<u>30</u>	<u>514</u>
P12		<u>33</u>	<u>529</u>	<u>55</u>	<u>115</u>	<u>33</u>	<u>515</u>
P13		<u>36</u>	<u>532</u>	<u>60</u>	<u>119</u>	<u>36</u>	<u>517</u>
P14		<u>39</u>	<u>535</u>	<u>65</u>	<u>123</u>	<u>39</u>	<u>518</u>
P15		<u>42</u>	<u>536</u>	<u>70</u>	<u>124</u>	<u>42</u>	<u>519</u>
P16		<u>45</u>	<u>537</u>			<u>45</u>	<u>520</u>
P17		<u>48</u>	<u>538</u>			<u>48</u>	<u>521</u>
P18		<u>51</u>	<u>538</u>			<u>51</u>	<u>522</u>
P19		<u>54</u>	<u>538</u>			<u>54</u>	<u>523</u>
P20		<u>57</u>	<u>538</u>			<u>57</u>	<u>524</u>
WTC - 4		<u>60</u>	<u>538</u>			<u>60</u>	<u>524</u>

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WESTERN TESTING CO., INC.

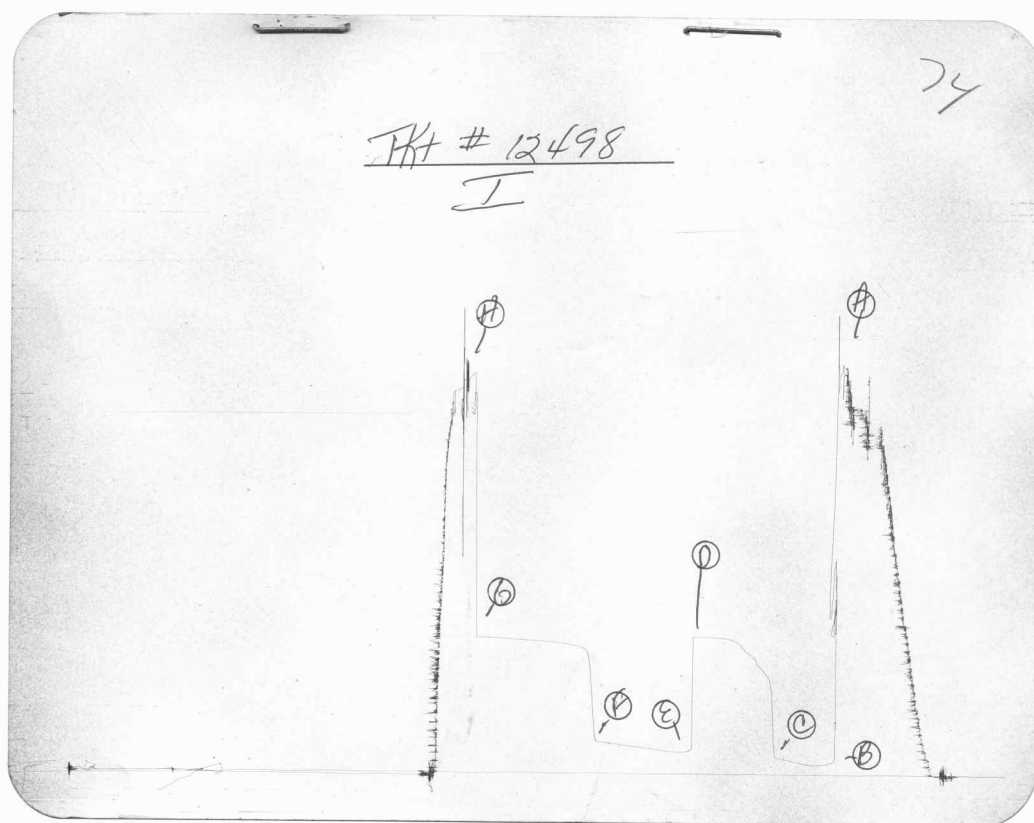
Pressure Data

Date 10/11/81 Test Ticket No. 12498
 Recorder No. 3474 Capacity 3000 Location 3000 Ft.
 Clock No. - Elevation 1784 Kelly Bushing Well Temperature 109 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1570 P.S.I.	10:38A	M
B First Initial Flow Pressure	38 P.S.I.	45 Mins.	45 Mins.
C First Final Flow Pressure	65 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	538 P.S.I.	75 Mins.	70 Mins.
E Second Initial Flow Pressure	85 P.S.I.	90 Mins.	90 Mins.
F Second Final Flow Pressure	124 P.S.I.		
G Final Closed-in Pressure	532 P.S.I.		
H Final Hydrostatic Mud	1552 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown:		Initial Shut-In Breakdown:		Second Flow Pressure Breakdown:		Final Shut-In Breakdown:	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
Breakdown: 9 Inc.		Breakdown: 20 Inc.		Breakdown: 14 Inc.		Breakdown: 30 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
P 1						63	525
P 2						66	526
P 3						69	527
P 4						72	528
P 5						75	529
P 6						78	530
P 7						81	531
P 8						84	532
P 9						87	532
P10						90	532
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	1592	1570	PSI
(B) First Initial Flow Pressure	30	38	PSI
(C) First Final Flow Pressure	61	65	PSI
(D) Initial Closed-in Pressure	537	538	PSI
(E) Second Initial Flow Pressure	76	85	PSI
(F) Second Final Flow Pressure	115	124	PSI
(G) Final Closed-in Pressure	537	532	PSI
(H) Final Hydrostatic Mud	1585	1552	PSI



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Company K & E Petroleum, Inc. Lease & Well No. #1 Jacobs
Elevation 1784 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 12499
Date 10/12/81 Sec. 12 Twp. 13S Range 15W County Russell State Kansas
Test Approved by Tim Priest Western Representative Denis Wondra
Formation Test No. 3 Interval Tested from 3037 ft. to 3050 ft. Total Depth 3050 ft.
Packer Depth 3032 ft. Size 6 5/8 in. Packer Depth 3037 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) 3040 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3043 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Abercrombie Drilling Rig #3 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 37 Weight Pipe Length 540 I. D. 2.8 in.
Weight 9.7 Water Loss 15.6 cc. Drill Pipe Length 2475 I. D. 3.8 in.
Chlorides 54,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 13 ft. Size 5 1/2 OD in.
Did Well Flow? - 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: Strong throughout initial flow period Good throughout final flow period.

Recovered 200 ft. of slightly oil cut muddy water
Recovered 600 ft. of salt water Chlorides 70,000 PPM
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks:

Time Set Packer(s) 1:58 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 5:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 99
Initial Hydrostatic Pressure (A) 1573 P.S.I.
Initial Flow Period Minutes 45 (B) 70 P.S.I. to (C) 298 P.S.I.
Initial Closed In Period Minutes 45 (D) 472 P.S.I.
Final Flow Period Minutes 55 (E) 332 P.S.I. to (F) 404 P.S.I.
Final Closed In Period Minutes 60 (G) 471 P.S.I.
Final Hydrostatic Pressure (H) 1573 P.S.I.

WESTERN TESTING CO., INC.

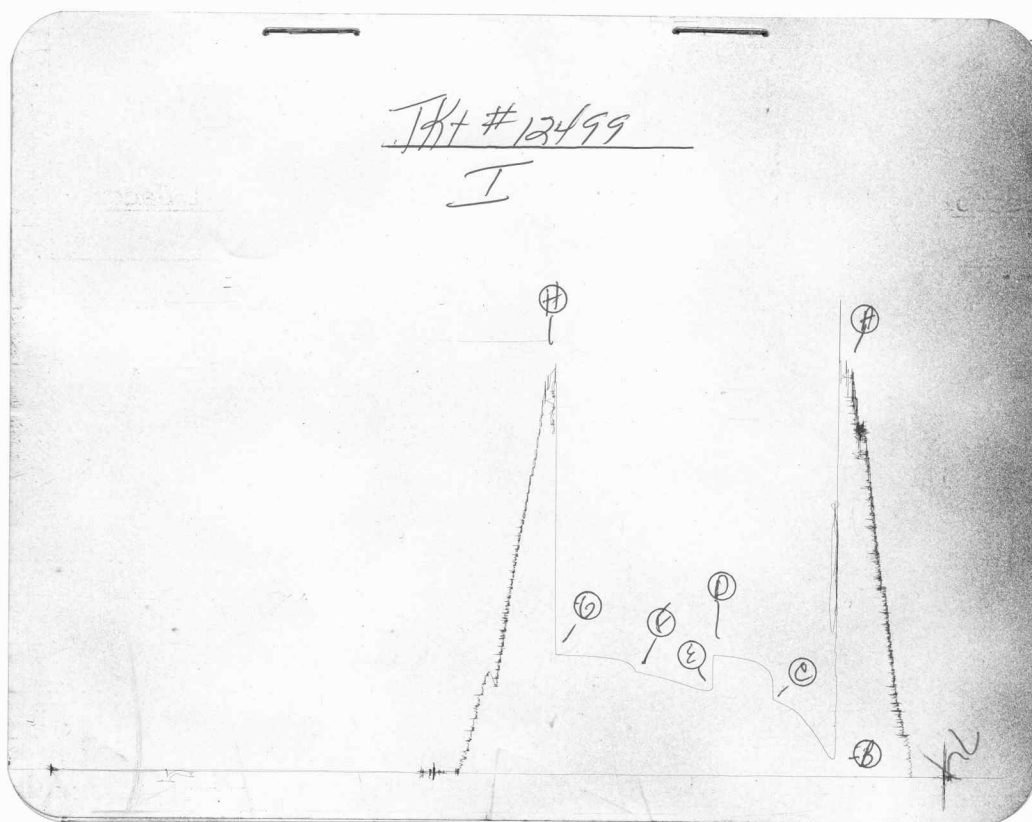
Pressure Data

Date 10/12/81 Test Ticket No. 12499
 Recorder No. 3474 Capacity 3000 Location 3040 Ft.
 Clock No. - Elevation 1784 Kelly Bushing Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1573</u>	P.S.I.	<u>1:58A</u>	<u>M</u>
B First Initial Flow Pressure	<u>70</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>298</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>472</u>	P.S.I.	<u>60</u>	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>332</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>404</u>	P.S.I.		
G Final Closed-in Pressure	<u>471</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1573</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>11</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>70</u>	<u>0</u>	<u>298</u>	<u>0</u>	<u>332</u>	<u>0</u>	<u>404</u>
P 2 <u>5</u>	<u>83</u>	<u>3</u>	<u>412</u>	<u>5</u>	<u>333</u>	<u>3</u>	<u>430</u>
P 3 <u>10</u>	<u>124</u>	<u>6</u>	<u>427</u>	<u>10</u>	<u>338</u>	<u>6</u>	<u>439</u>
P 4 <u>15</u>	<u>167</u>	<u>9</u>	<u>438</u>	<u>15</u>	<u>345</u>	<u>9</u>	<u>447</u>
P 5 <u>20</u>	<u>200</u>	<u>12</u>	<u>446</u>	<u>20</u>	<u>355</u>	<u>12</u>	<u>450</u>
P 6 <u>25</u>	<u>233</u>	<u>15</u>	<u>452</u>	<u>25</u>	<u>364</u>	<u>15</u>	<u>453</u>
P 7 <u>30</u>	<u>258</u>	<u>18</u>	<u>456</u>	<u>30</u>	<u>371</u>	<u>18</u>	<u>456</u>
P 8 <u>35</u>	<u>273</u>	<u>21</u>	<u>459</u>	<u>35</u>	<u>379</u>	<u>21</u>	<u>458</u>
P 9 <u>40</u>	<u>286</u>	<u>24</u>	<u>462</u>	<u>40</u>	<u>385</u>	<u>24</u>	<u>460</u>
P10 <u>45</u>	<u>298</u>	<u>27</u>	<u>465</u>	<u>45</u>	<u>391</u>	<u>27</u>	<u>461</u>
P11		<u>30</u>	<u>467</u>	<u>50</u>	<u>397</u>	<u>30</u>	<u>462</u>
P12		<u>33</u>	<u>468</u>	<u>55</u>	<u>404</u>	<u>33</u>	<u>463</u>
P13		<u>36</u>	<u>469</u>			<u>36</u>	<u>464</u>
P14		<u>39</u>	<u>470</u>			<u>39</u>	<u>465</u>
P15		<u>42</u>	<u>471</u>			<u>42</u>	<u>466</u>
P16		<u>45</u>	<u>472</u>			<u>45</u>	<u>467</u>
P17						<u>48</u>	<u>468</u>
P18						<u>51</u>	<u>469</u>
P19						<u>54</u>	<u>470</u>
P20						<u>57</u>	<u>471</u>
WTC - 4						<u>60</u>	<u>471</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1600	1573	PSI
(B) First Initial Flow Pressure	69	70	PSI
(C) First Final Flow Pressure	300	298	PSI
(D) Initial Closed-in Pressure	476	472	PSI
(E) Second Initial Flow Pressure	330	332	PSI
(F) Second Final Flow Pressure	400	404	PSI
(G) Final Closed-in Pressure	469	471	PSI
(H) Final Hydrostatic Mud	1600	1573	PSI

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	K & E Petroleum Inc.	Test No.	4
Well Name & Number	Jacobs #1	Zone Tested	Arb.
Company Address	Wichita, KS.	Date	10-13-81
Comp. Rep.	Tim Priest	Tester	John Critser
Contractor	Abercrombie Drlg.	Elevation	1784 KB.
Location: Sec. 12 Twp. 13s Rge. 15w Co. Russell State KS.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI

Recorder Depth 3218

(A) Initial Hydrostatic Mud 1746 PSI

(B) First Initial Flow Pressure 29 PSI

(C) First Final Flow Pressure 29 PSI

(D) Initial Closed-in Pressure 38 PSI

(E) Second Initial Flow Pressure 29 PSI

(F) Second Final Flow Pressure 29 PSI

(G) Final Closed-in Pressure 38 PSI

(H) Final Hydrostatic Mud 1736 PSI

Temperature

Mud Weight 9.8 Viscosity 46

Fluid Loss 11.2

Interval Tested 3206-3221

Anchor Length 15

Top Packer Depth 3201

Bottom Packer Depth 3206

Total Depth 3221

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 2.7 Ft. Run 604

Recovery—Total Feet 1

Recovered 1 Feet Of MUD.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI

Recorder Depth 3210

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

Rubber Size 6 3/4"

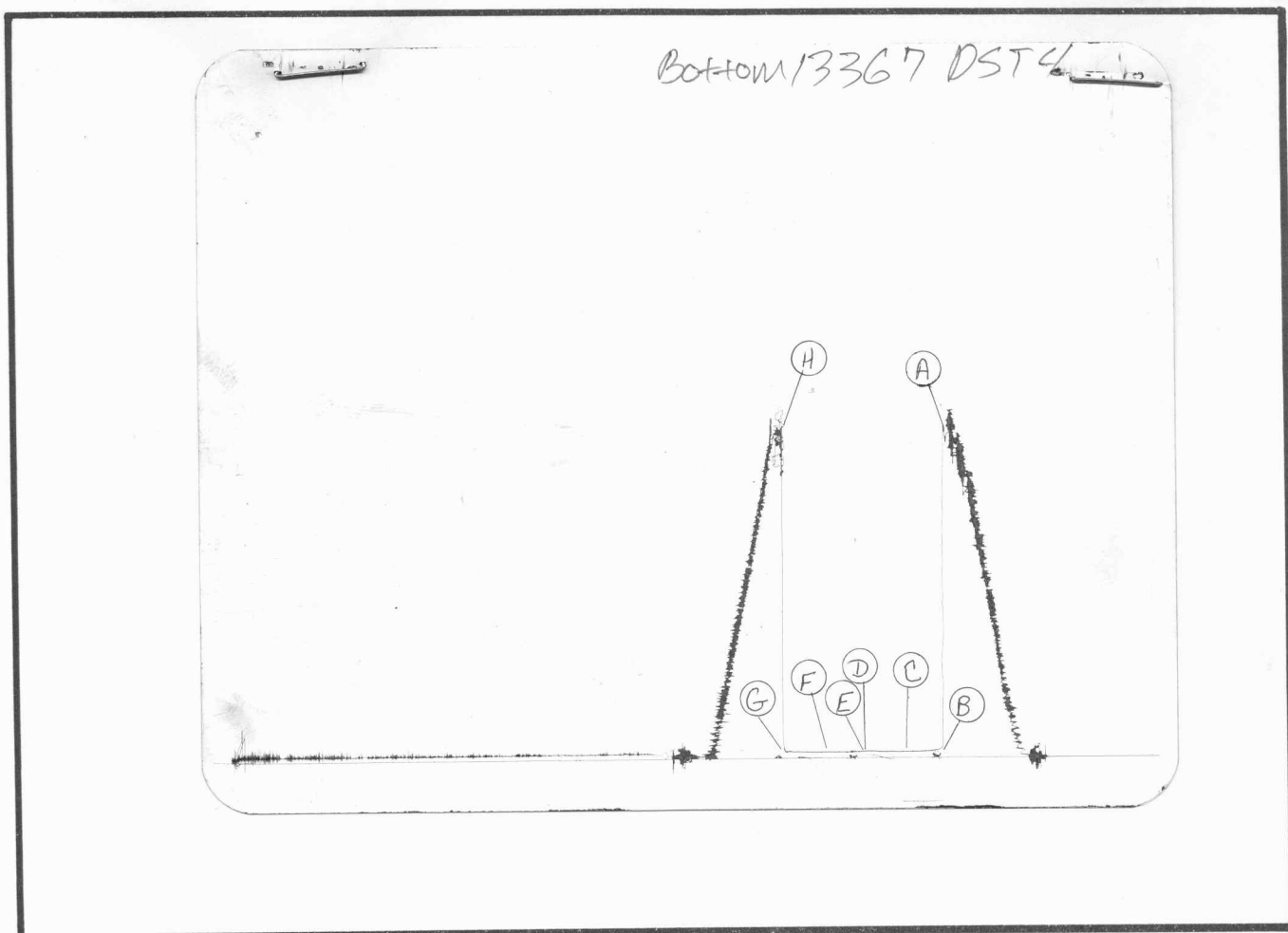
Tool Open @ 12:45 A.M.

Blow 1ST OPEN-WEAK BLOW. 14 MIN. THEN DIED.

Remarks 2ND OPEN-NO BLOW.

Drill Collar I. D. Ft. Run

Price of Job \$700.00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1746	PSI
(B) First Initial Flow Pressure	29	PSI
(C) First Final Flow Pressure	29	PSI
(D) Initial Closed-in Pressure	38	PSI
(E) Second Initial Flow Pressure	29	PSI
(F) Second Final Flow Pressure	29	PSI
(G) Final Closed-in Pressure	38	PSI
(H) Final Hydrostatic Mud	1736	PSI

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	K & E Petroleum Inc.	Test No.	5
Well Name & Number	Jacobs #1	Zone Tested	Arb.
Company Address	Wichita, KS.	Date	10-13-81
Comp. Rep.	Tim Priest	Tester	John Critser
Contractor	Abercrombie Drlg.	Elevation	1754 KB.
Location: Sec. 12 Twp. 13s Rge. 15w Co. Russell State KS.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI

Recorder Depth 3233

(A) Initial Hydrostatic Mud 1703 PSI

(B) First Initial Flow Pressure 38 PSI

(C) First Final Flow Pressure 38 PSI

(D) Initial Closed-in Pressure 359 PSI

(E) Second Initial Flow Pressure 38 PSI

(F) Second Final Flow Pressure 38 PSI

(G) Final Closed-in Pressure 311 PSI

(H) Final Hydrostatic Mud 1703 PSI

Temperature

Mud Weight 9.8 Viscosity 46

Fluid Loss 11.2

Interval Tested 3206-3236

Anchor Length 30'

Top Packer Depth 3201

Bottom Packer Depth 3206

Total Depth 3236

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 2.7 Ft. Run 604

Recovery—Total Feet 20'

Recovered 20 Feet Of MUD WITH FEW OIL SPOTS.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment none Price of Job \$700.00

Recorder No. 13368 Type AK-1 Range 3850 PSI

Recorder Depth 3210

Tool Open Before I. S. I. 30 Mins.

Initial Shut-in 30 Mins.

Flow Period 30 Mins.

Final Shut-in 30 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

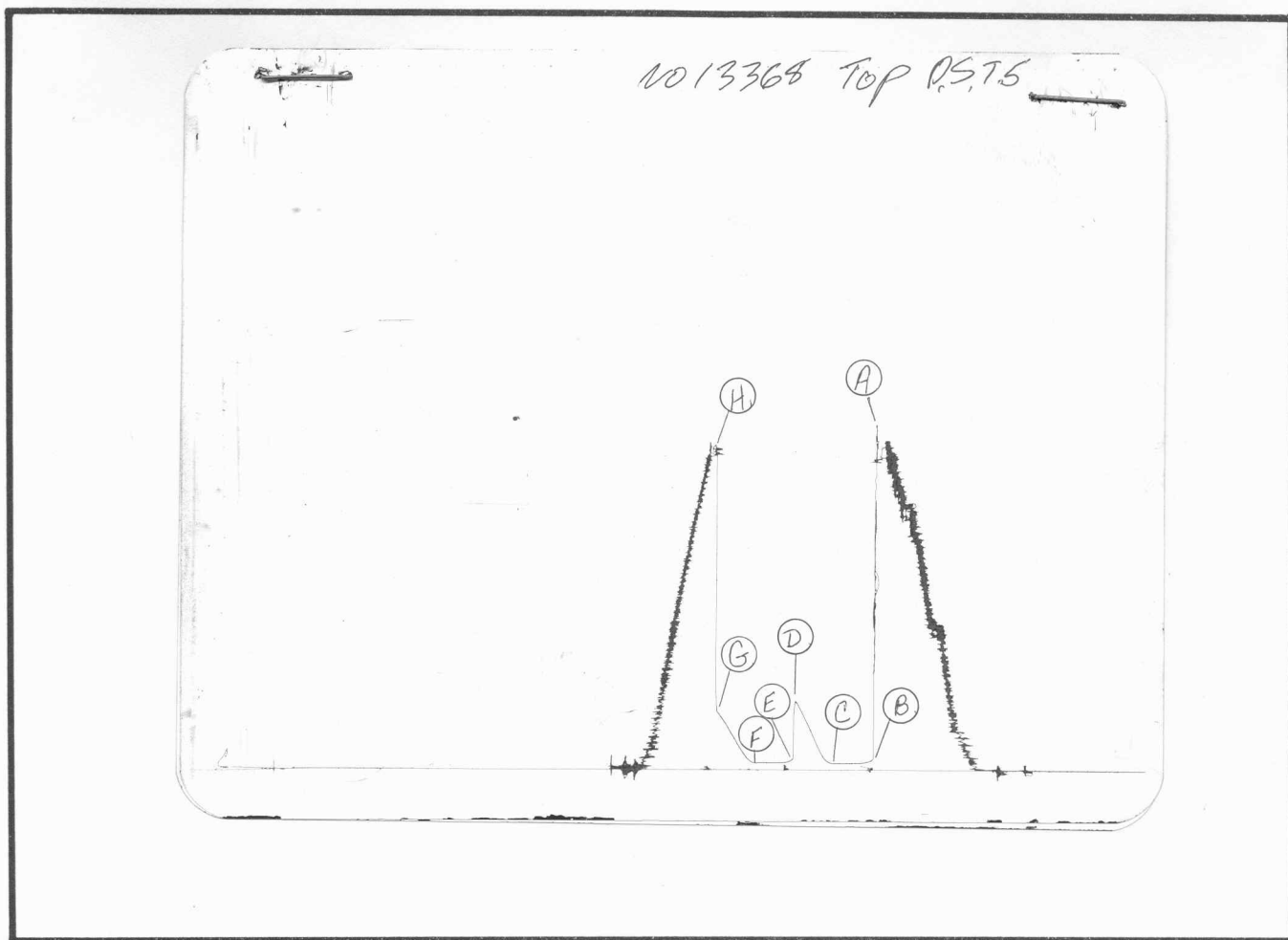
Rubber Size 6 3/4"

Tool Open @ 10:30 A.M.

Blow 1ST OPEN-WEAK BLOW 20 MIN. THEN DIED.

Remarks 2ND OPEN-NO BLOW.

Drill Collar I. D. Ft. Run



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1703	PSI
(B) First Initial Flow Pressure	38	PSI
(C) First Final Flow Pressure	38	PSI
(D) Initial Closed-in Pressure	359	PSI
(E) Second Initial Flow Pressure	38	PSI
(F) Second Final Flow Pressure	38	PSI
(G) Final Closed-in Pressure	311	PSI
(H) Final Hydrostatic Mud	1703	PSI

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	K & E Petroleum Inc.	Test No.	6
Well Name & Number	Jacobs #1	Zone Tested	Arb.
Company Address	Wichita, Ks.	Date	10-13-81
Comp. Rep.	Tim Priest	Tester	John Critser
Contractor	Abercrombie Drlg.	Elevation	1754 KB.
Location: Sec. 12 Twp. 13s Rge.15w Co. Russell State KS.		Est. Feet of Pay	

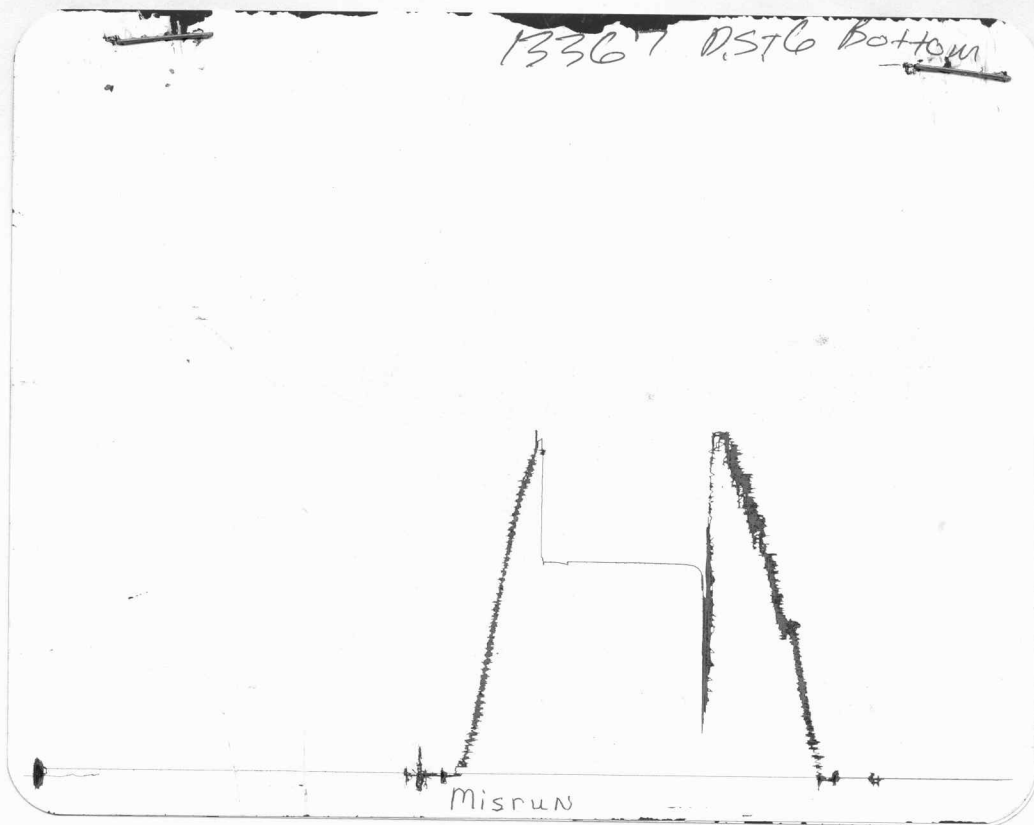
Recorder No. 13367 Type AK-1 Range 3850 PSI
 Recorder Depth 3245
 (A) Initial Hydrostatic Mud _____ PSI
 (B) First Initial Flow Pressure _____ PSI
 (C) First Final Flow Pressure _____ PSI
 (D) Initial Closed-in Pressure _____ PSI
 (E) Second Initial Flow Pressure _____ PSI
 (F) Second Final Flow Pressure _____ PSI
 (G) Final Closed-in Pressure _____ PSI
 (H) Final Hydrostatic Mud _____ PSI
 Temperature _____
 Mud Weight 9.5 Viscosity 41
 Fluid Loss 6.4
 Interval Tested 3217-3248
 Anchor Length 31
 Top Packer Depth 3212
 Bottom Packer Depth 3217
 Total Depth 3248
 Drill Pipe Size 4 1/2 XH
 Wt. Pipe I. D. 2.7 Ft. Run 604
 Recovery—Total Feet 250
 Recovered 250 Feet Of MUD.
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Extra Equipment NONE

Recorder No. 13368 Type AK-1 Range 3850 PSI
 Recorder Depth 3221
 Tool Open Before I. S. I. 30 Mins.
 Initial Shut-in 30 Mins.
 Flow Period 30 Mins.
 Final Shut-in 30 Mins.
 Surface Choke Size 1"
 Bottom Choke Size 3/4"
 Main Hole Size 7 7/8"
 Rubber Size 6 3/4"
 Tool Open @ 8:05 P.M.
 Blow 1ST OPEN-WEAK BLOW DIED 19 MIN.
 Remarks 2ND OPEN-NO BLOW.
SLID TOOL 4' TO BOTTOM. HAD PACKER FAILER
BEFORE SETTING TOOL. MISRUN.

 Drill Collar I. D. _____ Ft. Run _____

Price of Job \$330.00

TICKET NO 4873



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud		PSI
(B) First Initial Flow Pressure		PSI
(C) First Final Flow Pressure		PSI
(D) Initial Closed-in Pressure		PSI
(E) Second Initial Flow Pressure		PSI
(F) Second Final Flow Pressure		PSI
(G) Final Closed-in Pressure		PSI
(H) Final Hydrostatic Mud		PSI

CHENEY TESTING COMPANY

P. O. BOX 3

HILL CITY, KANSAS 67642

DRILL-STEM TEST DATA

Company	K & E Petroleum Inc.	Test No.	7
Well Name & Number	Jacobs #1	Zone Tested	Arb.
Company Address	Wichita, Ks.	Date	10-14-81
Comp. Rep.	Tim Priest	Tester	John Critser
Contractor	Abercrombie Drlg.	Elevation	1784 K.B.
Location: Sec. 12 Twp. 13s Rge. 15w Co. Russell State KS.		Est. Feet of Pay	

Recorder No. 13367 Type AK-1 Range 3850 PSI

Recorder Depth 3257

(A) Initial Hydrostatic Mud 1723 PSI

(B) First Initial Flow Pressure 68 PSI

(C) First Final Flow Pressure 155 PSI

(D) Initial Closed-in Pressure 1075 PSI

(E) Second Initial Flow Pressure 175 PSI

(F) Second Final Flow Pressure 291 PSI

(G) Final Closed-in Pressure 1075 PSI

(H) Final Hydrostatic Mud 1694 PSI

Temperature 50

Mud Weight 9.5 Viscosity 50.0

Fluid Loss 10.0 3260

Interval Tested 3222-3260

Anchor Length 38

Top Packer Depth 3217

Bottom Packer Depth 3222

Total Depth 3260

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. 2.7 Ft. Run 604

Recovery—Total Feet 680

Recovered 680 Feet Of SALT WATER.

Recovered Feet Of

Recovered Feet Of

Recovered Feet Of

Extra Equipment NONE Price of Job \$700.00

Recorder No. 13368 Type AK-1 Range 3850 PSI

Recorder Depth 3226

Tool Open Before I. S. I. 45 Mins.

Initial Shut-in 45 Mins.

Flow Period 60 Mins.

Final Shut-in 60 Mins.

Surface Choke Size 1"

Bottom Choke Size 3/4"

Main Hole Size 7 7/8"

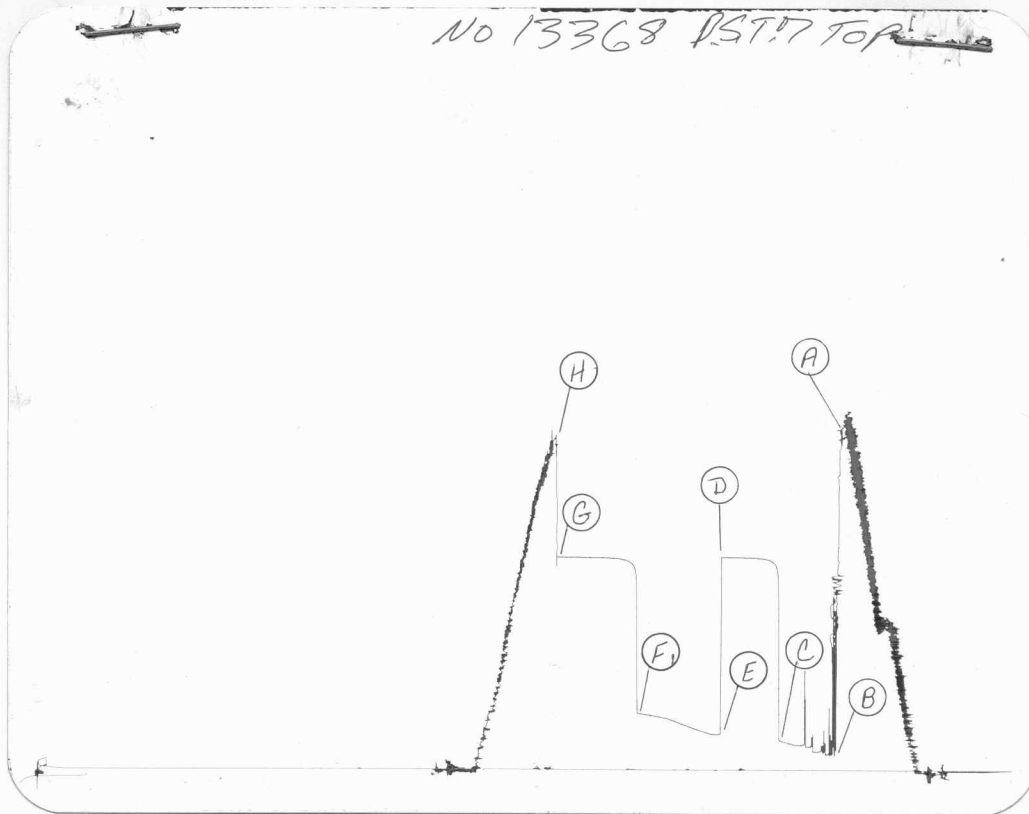
Rubber Size 6 3/4"

Tool Open @ 6:30 A.M.

Blow STRONG BLOW THROUGHOUT TEST.

Remarks

Drill Collar I. D. Ft. Run



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1723	PSI
(B) First Initial Flow Pressure	68	PSI
(C) First Final Flow Pressure	155	PSI
(D) Initial Closed-in Pressure	1075	PSI
(E) Second Initial Flow Pressure	175	PSI
(F) Second Final Flow Pressure	291	PSI
(G) Final Closed-in Pressure	1075	PSI
(H) Final Hydrostatic Mud	1694	PSI