

CONFIDENTIAL



Ricketts Testing, Inc.

15-127-20565

ORIGINAL

Company KNIGHTON OIL CO., INC. Lease & Well No. HAILEY #1
 Elevation 1473 KB Formation KANSAS CITY Effective Pay _____ ft. Ticket No. 1867
 Date 10-13-97 Sec. 11 Twp. 16 Range 7E County MORRIS State KANSAS
 Test Approved by DAVE MONTAGUE Ricketts Representative JIM RICKETTS
 Formation Test No. 1 Interval Tested from 1369 ft. to 1380 ft. Total Depth 1380 ft.
 Packer Depth 1369 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 1366 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 1374 ft. Recorder Number 13307 Cap. 4650
 Bottom Recorder Depth (Outside) 1377 ft. Recorder Number 13306 Cap. 4625
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
 Drilling Contractor Summit Drilling Rig #1 Drill Collar Length 315 I.D. 2.25 in.
 Mud Type Chemical Viscosity 45 Weight Pipe Length _____ I.D. _____ in.
 Weight 9.2 Water Loss _____ cc. Drill Pipe Length 1034 I.D. 3.25 in.
 Chlorides _____ P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make _____ Serial Number _____ Anchor Length 11 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.
 Gravity Oil _____ Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 xh in.

Blow: Weak blow building to 6" in water Initial Flow Period.
Strong blow Final Flow Period.

Recovered 1 ft. of Mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: No gas detected in pipe.

CONFIDENTIAL

FROM CONFIDENTIAL

Time Set Packer (s) 5:50 A.M. Time Started Off Bottom 8:15 A.M. Maximum Temperature 74°
 Initial Hydrostatic Pressure..... (A) 759 P.S.I.
 Initial Flow Period Minutes 30 (B) 37 P.S.I. to
 (C) 21 P.S.I.
 Initial Closed In Period Minutes 30 (D) 313 P.S.I.
 Final Flow Period Minutes 45 (E) 37 P.S.I. to
 (F) 21 P.S.I.
 Final Closed In Period Minutes 60 (G) 318 P.S.I.
 Final Hydrostatic Pressure (H) 759 P.S.I.

RICKETTS TESTING, INC.

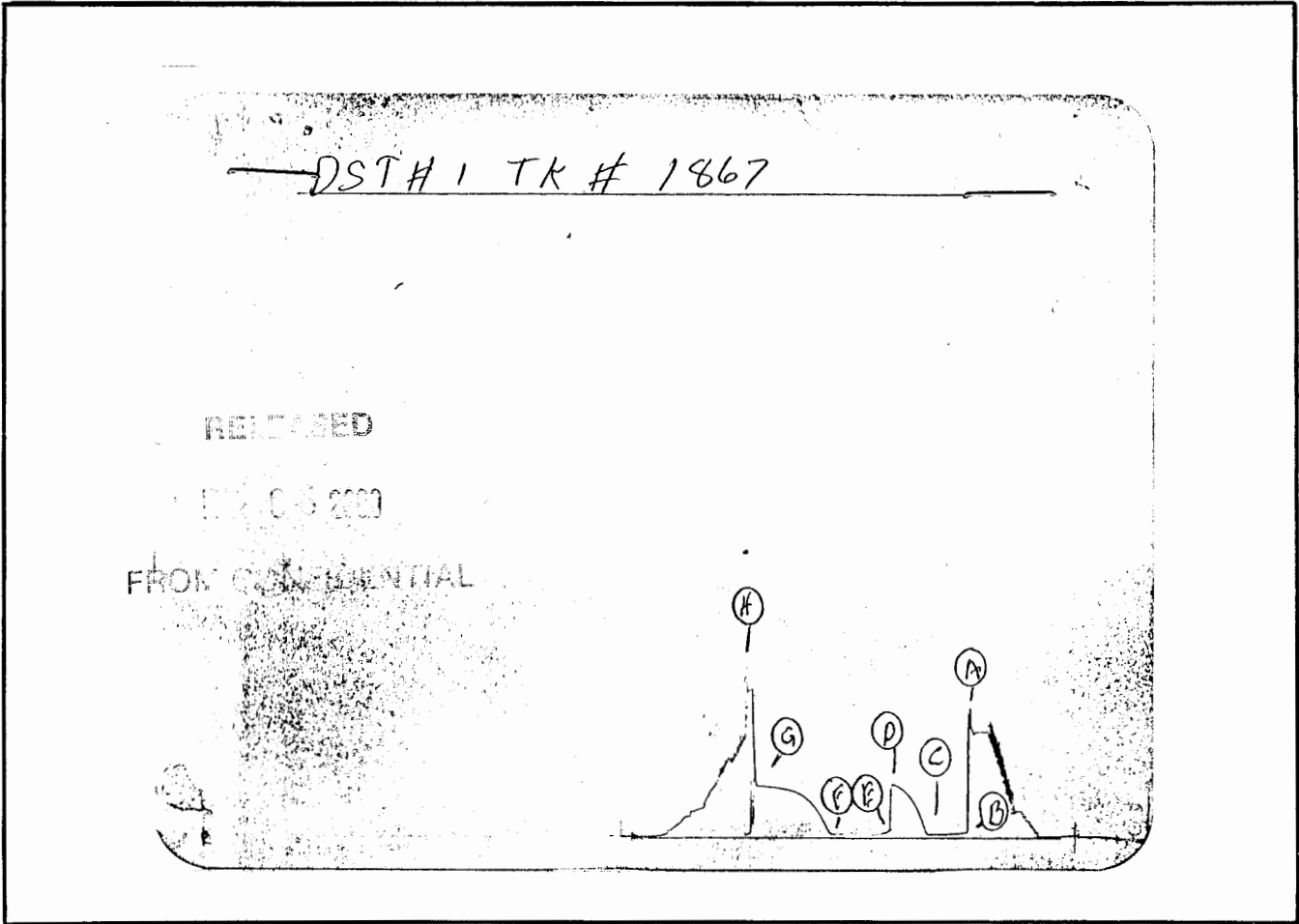
Pressure Data

Date 10-13-97 Test Ticket No. 1867
 Recorder No. 13307 Capacity 4650 Location 1374 Ft.
 Clock No. _____ Elevation 1473 K.B. Well Temperature 74 °F

Point	Pressure		Time Given	Time Computed	
				A	M
A Initial Hydrostatic Mud	<u>759</u> P.S.I.	Open Tool	<u>5:50</u>		
B First Initial Flow Pressure	<u>37</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.	
C First Final Flow Pressure	<u>21</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.	
D Initial Closed-in Pressure	<u>313</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.	
E Second Initial Flow Pressure	<u>37</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.	
F Second Final Flow Pressure	<u>21</u> P.S.I.				
G Final Closed-in Pressure	<u>318</u> P.S.I.				
H Final Hydrostatic Mud	<u>759</u> 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>9</u> mins. and a		of <u>20</u> mins. and a	
	final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ 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>21</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>21</u>	
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>51</u>	<u>5</u>	<u>32</u>	<u>3</u>	<u>41</u>	
P 3 <u>10</u>	<u>25</u>	<u>6</u>	<u>120</u>	<u>10</u>	<u>28</u>	<u>6</u>	<u>97</u>	
P 4 <u>15</u>	<u>21</u>	<u>9</u>	<u>171</u>	<u>15</u>	<u>21</u>	<u>9</u>	<u>134</u>	
P 5 <u>20</u>	<u>21</u>	<u>12</u>	<u>210</u>	<u>20</u>	<u>21</u>	<u>12</u>	<u>176</u>	
P 6 <u>25</u>	<u>21</u>	<u>15</u>	<u>241</u>	<u>25</u>	<u>21</u>	<u>15</u>	<u>203</u>	
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>268</u>	<u>30</u>	<u>21</u>	<u>18</u>	<u>227</u>	
P 8 <u>35</u>		<u>21</u>	<u>287</u>	<u>35</u>	<u>21</u>	<u>21</u>	<u>245</u>	
P 9 <u>40</u>		<u>24</u>	<u>299</u>	<u>40</u>	<u>21</u>	<u>24</u>	<u>261</u>	
P10 <u>45</u>		<u>27</u>	<u>307</u>	<u>45</u>	<u>21</u>	<u>27</u>	<u>273</u>	
P11 <u>50</u>		<u>30</u>	<u>313</u>	<u>50</u>		<u>30</u>	<u>281</u>	
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	<u>287</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	<u>294</u>	
P14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	<u>299</u>	
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	<u>303</u>	
P16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	<u>308</u>	
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	<u>311</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	<u>314</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	<u>316</u>	
P20 <u>95</u>		<u>57</u>				<u>57</u>	<u>317</u>	
		<u>60</u>				<u>60</u>	<u>318</u>	



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	754	759	PSI
(B) First Initial Flow Pressure	35	37	PSI
(C) First Final Flow Pressure	23	21	PSI
(D) Initial Closed-in Pressure	324	313	PSI
(E) Second Initial Flow Pressure	35	37	PSI
(F) Second Final Flow Pressure	23	21	PSI
(G) Final Closed-in Pressure	324	318	PSI
(H) Final Hydrostatic Mud	754	759	PSI

CONFIDENTIAL



Ricketts Testing, Inc.

15-127-20565

ORIGINAL

Company KNIGHTON OIL CO., INC. Lease & Well No. HELLEY #1

Elevation 2473 K.B. Formation KANSAS CITY Effective Pay _____ ft. Ticket No. 1868

Date 10-14-97 Sec. 11 Twp. 16 Range 7E County MORRIS State KANSAS

Test Approved by DAVE MONTAGUE Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 1380 ft. to 1394 ft. Total Depth 1394 ft.

Packer Depth 1380 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 1377 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 1385 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 1388 ft. Recorder Number 13306 Cap. 4625

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

Drilling Contractor Summit Drilling Rig #1 Drill Collar Length 315 I.D. 2.25 in.

Mud Type Chemical Viscosity _____ Weight Pipe Length _____ I.D. _____ in.

Weight 9.3 Water Loss 7.6 cc. Drill Pipe Length 1045 I.D. 3.25 in.

Chlorides 1000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 14 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.

Gravity Oil _____ Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 in.

Blow: Strong blow Initial Flow Period. Gas to surface in 11 minutes.

Strong blow Final Flow Period. Gauged 15,400 CFPD.

Recovered 30 ft. of Mud.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

RECEIVED
OCT 15 1997
FROM CONFIDENTIAL

Remarks: _____

Time Set Packer (s) 10:46 P.M. Time Started Off Bottom 2:16 A.M. Maximum Temperature 73°

Initial Hydrostatic Pressure.....(A) 709 P.S.I.

Initial Flow Period.....Minutes 30 (B) 17 P.S.I. to (C) 17 P.S.I.

Initial Closed In Period.....Minutes 60 (D) 357 P.S.I.

Final Flow Period.....Minutes 60 (E) 17 P.S.I. to (F) 17 P.S.I.

Final Closed In Period.....Minutes 60 (G) 357 P.S.I.

Final Hydrostatic Pressure.....(H) 698 P.S.I.



Ricketts Testing

GAS FLOW REPORT

Date 10-14-97 Ticket 1868 Company Knighton Oil Co., Inc.
 Well Name and No. Hailey #1 Dst No. 2 Interval Tested 1380-1394
 County Morris State Kansas Sec. 11 Twp. 16 Rg. 7E

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
1/4" Orifice		PRE FLOW				
11:06PM	20	24 IOW				8,220 CFPD
11:16	30	26 IOW				8,560 CFPD
						GAS TO SURFACE IN 11 MINUTES INITIAL FLOW PERIOD.

1/2" Orifice		SECOND FLOW				
12:26AM	10	6 IOW				15,400 CFPD
12:36AM	20	6 IOW				15,400 CFPD
12:46AM	30	6 IOW				15,400 CFPD
12:56AM	40	6 IOW				15,400 CFPD
1:06AM	50	6 IOW				15,400 CFPD
1:16AM	60	6 IOW				15,400 CFPD

GAS BOTTLE

Serial No. _____ Date Bottle Filled 10-14-97 Date to be Invoiced _____

Requisition and Provisions for high pressure steel gas bottles. Ricketts Testing 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 Ricketts Testing 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 _____

RICKETTS TESTING, INC.

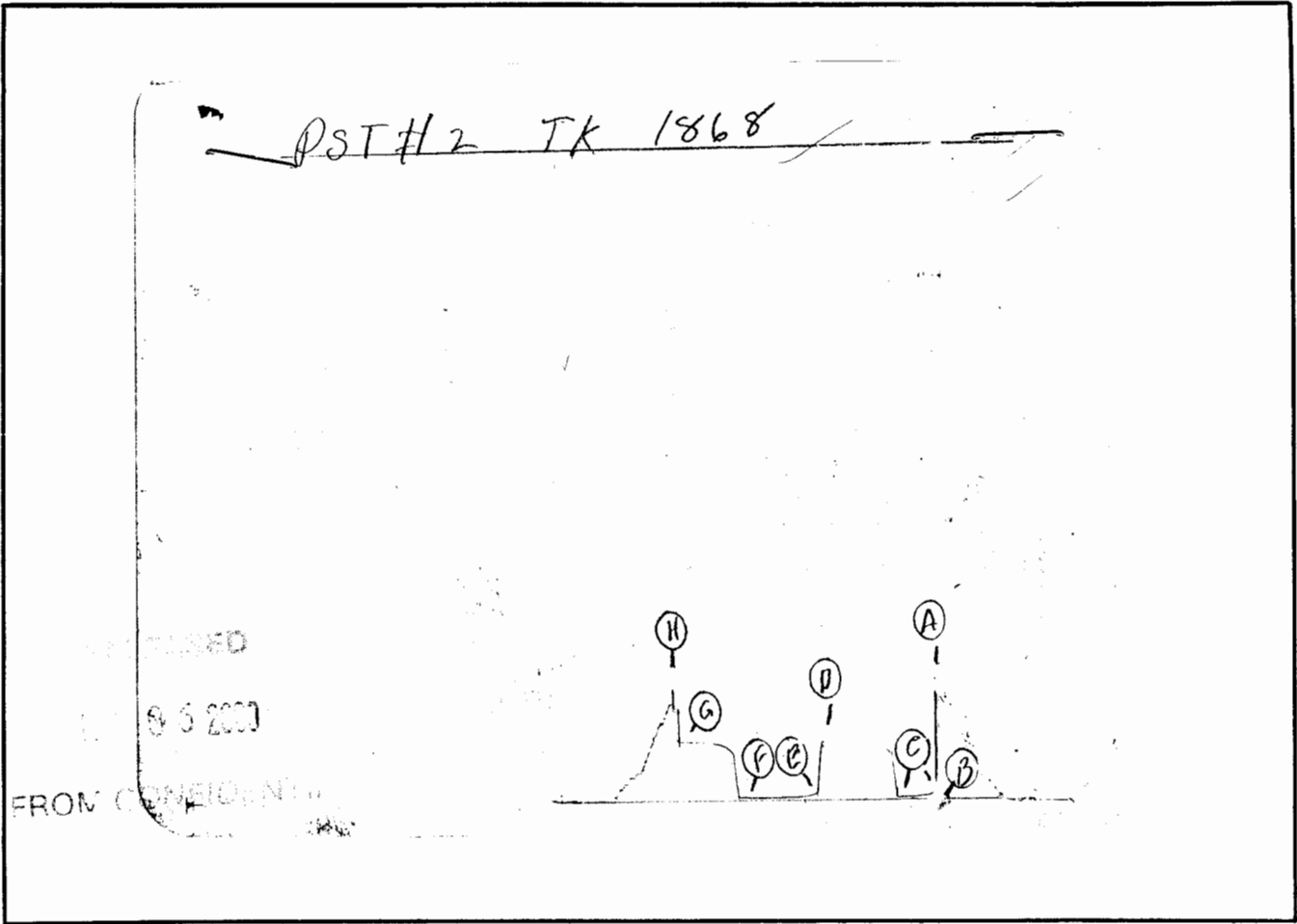
Pressure Data

Date 10-14-97 Test Ticket No. 1868
 Recorder No. 13306 Capacity 4625 Location 1388 Ft.
 Clock No. _____ Elevation 1473 K.B. Well Temperature 73 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>709</u> P.S.I.	Open Tool	<u>10:46</u> P.M.	
B First Initial Flow Pressure	<u>17</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>17</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>357</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>17</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>17</u> P.S.I.			
G Final Closed-in Pressure	<u>357</u> P.S.I.			
H Final Hydrostatic Mud	<u>698</u> 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>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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>17</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>17</u>	
P 2 <u>5</u>	<u>17</u>	<u>3</u>	<u>200</u>	<u>5</u>	<u>17</u>	<u>3</u>	<u>224</u>	
P 3 <u>10</u>	<u>17</u>	<u>6</u>	<u>284</u>	<u>10</u>	<u>17</u>	<u>6</u>	<u>289</u>	
P 4 <u>15</u>	<u>17</u>	<u>9</u>	<u>312</u>	<u>15</u>	<u>17</u>	<u>9</u>	<u>314</u>	
P 5 <u>20</u>	<u>17</u>	<u>12</u>	<u>331</u>	<u>20</u>	<u>17</u>	<u>12</u>	<u>331</u>	
P 6 <u>25</u>	<u>17</u>	<u>15</u>	<u>338</u>	<u>25</u>	<u>17</u>	<u>15</u>	<u>343</u>	
P 7 <u>30</u>	<u>17</u>	<u>18</u>	<u>345</u>	<u>30</u>	<u>17</u>	<u>18</u>	<u>347</u>	
P 8 <u>35</u>		<u>21</u>	<u>348</u>	<u>35</u>	<u>17</u>	<u>21</u>	<u>350</u>	
P 9 <u>40</u>		<u>24</u>	<u>352</u>	<u>40</u>	<u>17</u>	<u>24</u>	<u>352</u>	
P10 <u>45</u>		<u>27</u>	<u>354</u>	<u>45</u>	<u>17</u>	<u>27</u>	<u>353</u>	
P11 <u>50</u>		<u>30</u>	<u>356</u>	<u>50</u>	<u>17</u>	<u>30</u>	<u>354</u>	
P12 <u>55</u>		<u>33</u>	<u>357</u>	<u>55</u>	<u>17</u>	<u>33</u>	<u>355</u>	
P13 <u>60</u>		<u>36</u>	<u>357</u>	<u>60</u>	<u>17</u>	<u>36</u>	<u>356</u>	
P14 <u>65</u>		<u>39</u>	<u>357</u>	<u>65</u>		<u>39</u>	<u>357</u>	
P15 <u>70</u>		<u>42</u>	<u>357</u>	<u>70</u>		<u>42</u>	<u>357</u>	
P16 <u>75</u>		<u>45</u>	<u>357</u>	<u>75</u>		<u>45</u>	<u>357</u>	
P17 <u>80</u>		<u>48</u>	<u>357</u>	<u>80</u>		<u>48</u>	<u>357</u>	
P18 <u>85</u>		<u>51</u>	<u>357</u>	<u>85</u>		<u>51</u>	<u>357</u>	
P19 <u>90</u>		<u>54</u>	<u>357</u>	<u>90</u>		<u>54</u>	<u>357</u>	
P20 <u>95</u>		<u>57</u>	<u>357</u>			<u>57</u>	<u>357</u>	
		<u>60</u>	<u>357</u>			<u>60</u>	<u>357</u>	



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	708	709	PSI
(B) First Initial Flow Pressure	19	17	PSI
(C) First Final Flow Pressure	19	17	PSI
(D) Initial Closed-in Pressure	353	357	PSI
(E) Second Initial Flow Pressure	19	17	PSI
(F) Second Final Flow Pressure	19	17	PSI
(G) Final Closed-in Pressure	352	357	PSI
(H) Final Hydrostatic Mud	708	698	PSI

CONFIDENTIAL



Ricketts Testing, Inc.

15-127-20565

ORIGINAL

Company KNIGHTON OIL CO., INC. Lease & Well No. HAILEY #1

Elevation 1473 K.B. Formation KANSAS CITY Effective Pay _____ ft. Ticket No. 1869

Date 10-15-97 Sec. 11 Twp. 16 Range 7E County MORRIS State KANSAS

Test Approved by DAVE MONTAGUE Ricketts Representative JIM RICKETTS

Formation Test No. 3 Interval Tested from 1394 ft. to 1410 ft. Total Depth 1410 ft.

Packer Depth 1394 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 1391 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 1399 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 1402 ft. Recorder Number 13306 Cap. 4625

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

Drilling Contractor Summit Drilling Rig #1 Drill Collar Length 315 I.D. 2.25 in.

Mud Type Chemical Viscosity 41 Weight Pipe Length _____ I.D. _____ in.

Weight 9.3 Water Loss 8 cc. Drill Pipe Length 1059 I.D. 3.25 in.

Chlorides 1000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 16 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.

Gravity Oil _____ Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 in.

Blow: Strong blow Initial Flow Period. Gas to surface in 29 minutes.

Strong blow Final Flow Period. Gauged 21,900 CFPD

Recovered 31 ft. of Mud.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer (s) 9:52 A M. Time Started Off Bottom 1:37 P M. Maximum Temperature 75°

Initial Hydrostatic Pressure..... (A) 720 P.S.I.

Initial Flow Period Minutes 45 (B) 30 P.S.I. to

(C) 23 P.S.I.

Initial Closed In Period Minutes 60 (D) 357 P.S.I.

Final Flow Period Minutes 60 (E) 30 P.S.I. to

(F) 23 P.S.I.

Final Closed In Period Minutes 60 (G) 357 P.S.I.

Final Hydrostatic Pressure (H) 720 P.S.I.

RECEIVED
OCT 15 1997
FROM CONFIDENTIAL



Ricketts Testing

GAS FLOW REPORT

Date 10-15-97 Ticket 1869 Company Knighton Oil Co., Inc.
 Well Name and No. Hailey #1 Dst No. 3 Interval Tested 1394-1410
 County Morris State Kansas Sec. 11 Twp. 16 Rg. 7E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria 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
1/4" Orifice		PRE FLOW				
10:32AM	40	34 IOW				9,790 CFPD
10:37	45	34 IOW				9,790 CFPD

1/2" Orifice		SECOND FLOW				
11:47AM	10	9 IOW				18,800 CFPD
11:57AM	20	10 IOW				19,900 CFPD
12:07PM	30	10 IOW				19,900 CFPD
12:17PM	40	11 IOW				20,900 CFPD
12:27PM	50	11 IOW				20,900 CFPD
12:37PM	60	12 IOW				21,900 CFPD

GAS BOTTLE

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

Requisition and Provisions for high pressure steel gas bottles. Ricketts Testing 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 Ricketts Testing 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 1½% 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 _____

RICKETTS TESTING, INC.

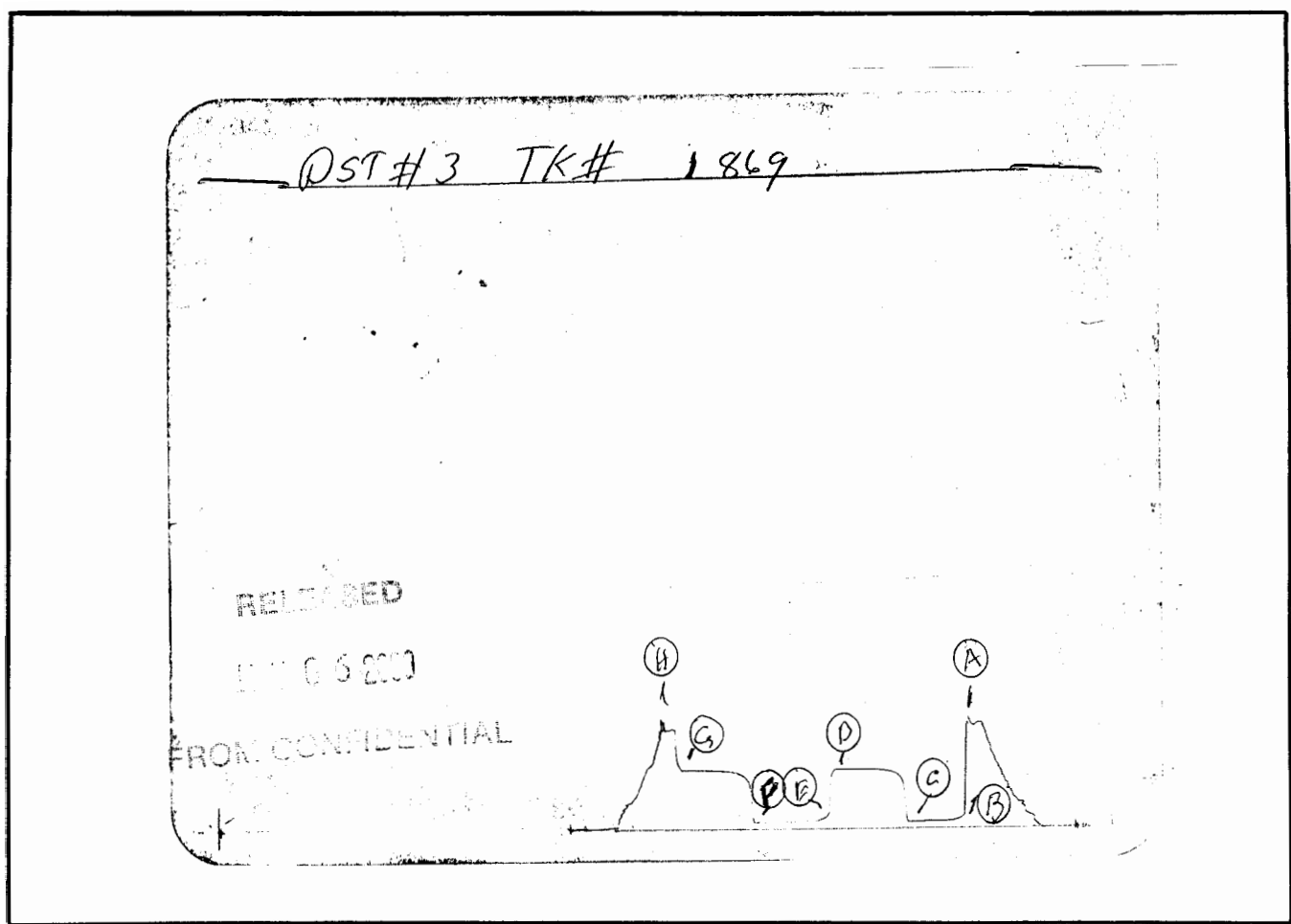
Pressure Data

Date 10-15-97 Test Ticket No. 1869
 Recorder No. 13306 Capacity 4625 Location 1402 Ft.
 Clock No. _____ Elevation 1473 K.B. Well Temperature 75 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>720</u> P.S.I.	Open Tool	<u>9:52</u> A M	
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>23</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>357</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>30</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>23</u> P.S.I.			
G Final Closed-in Pressure	<u>357</u> P.S.I.			
H Final Hydrostatic Mud	<u>720</u> 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.
	<u>9</u>		<u>20</u>		<u>12</u>		<u>20</u>	
	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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>30</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>23</u>	<u>0</u>
P 2	<u>30</u>	<u>3</u>	<u>218</u>	<u>3</u>	<u>30</u>	<u>3</u>	<u>208</u>	<u>3</u>
P 3	<u>28</u>	<u>6</u>	<u>305</u>	<u>6</u>	<u>29</u>	<u>6</u>	<u>298</u>	<u>6</u>
P 4	<u>28</u>	<u>9</u>	<u>324</u>	<u>9</u>	<u>28</u>	<u>9</u>	<u>321</u>	<u>9</u>
P 5	<u>28</u>	<u>12</u>	<u>343</u>	<u>12</u>	<u>27</u>	<u>12</u>	<u>332</u>	<u>12</u>
P 6	<u>28</u>	<u>15</u>	<u>346</u>	<u>15</u>	<u>26</u>	<u>15</u>	<u>343</u>	<u>15</u>
P 7	<u>26</u>	<u>18</u>	<u>348</u>	<u>18</u>	<u>25</u>	<u>18</u>	<u>345</u>	<u>18</u>
P 8	<u>25</u>	<u>21</u>	<u>350</u>	<u>21</u>	<u>24</u>	<u>21</u>	<u>347</u>	<u>21</u>
P 9	<u>24</u>	<u>24</u>	<u>354</u>	<u>24</u>	<u>23</u>	<u>24</u>	<u>349</u>	<u>24</u>
P10	<u>23</u>	<u>27</u>	<u>355</u>	<u>27</u>	<u>23</u>	<u>27</u>	<u>351</u>	<u>27</u>
P11		<u>30</u>	<u>356</u>	<u>30</u>	<u>23</u>	<u>30</u>	<u>353</u>	<u>30</u>
P12		<u>33</u>	<u>357</u>	<u>33</u>	<u>23</u>	<u>33</u>	<u>355</u>	<u>33</u>
P13		<u>36</u>	<u>357</u>	<u>36</u>	<u>23</u>	<u>36</u>	<u>357</u>	<u>36</u>
P14		<u>39</u>	<u>357</u>	<u>39</u>		<u>39</u>	<u>357</u>	<u>39</u>
P15		<u>42</u>	<u>357</u>	<u>42</u>		<u>42</u>	<u>357</u>	<u>42</u>
P16		<u>45</u>	<u>357</u>	<u>45</u>		<u>45</u>	<u>357</u>	<u>45</u>
P17		<u>48</u>	<u>357</u>	<u>48</u>		<u>48</u>	<u>357</u>	<u>48</u>
P18		<u>51</u>	<u>357</u>	<u>51</u>		<u>51</u>	<u>357</u>	<u>51</u>
P19		<u>54</u>	<u>357</u>	<u>54</u>		<u>54</u>	<u>357</u>	<u>54</u>
P20		<u>57</u>	<u>357</u>	<u>57</u>		<u>57</u>	<u>357</u>	<u>57</u>
		<u>60</u>	<u>357</u>	<u>60</u>		<u>60</u>	<u>357</u>	<u>60</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	720	720	PSI
(B) First Initial Flow Pressure	30	30	PSI
(C) First Final Flow Pressure	19	23	PSI
(D) Initial Closed-in Pressure	376	357	PSI
(E) Second Initial Flow Pressure	30	30	PSI
(F) Second Final Flow Pressure	19	23	PSI
(G) Final Closed-in Pressure	376	357	PSI
(H) Final Hydrostatic Mud	720	720	PSI

Ricketts Testing, Inc.

15-127-20565

CONFIDENTIAL

ORIGINAL

Company <u>KNIGHTON OIL CO., INC.</u>	Lease & Well No. <u>HAILEY #1</u>
Elevation <u>1473 K.B.</u> Formation <u>SIMPSON SAND</u>	Effective Pay _____ ft. Ticket No. <u>1870</u>
Date <u>10-16-97</u> Sec. <u>11</u> Twp. <u>16</u> Range <u>7E</u>	County <u>MORRIS</u> State <u>KANSAS</u>
Test Approved by <u>DAVE MONTAGUE</u>	Ricketts Representative <u>JIM RICKETTS</u>
Formation Test No. <u>4</u> Interval Tested from <u>1849</u> ft. to <u>1865</u> ft. Total Depth <u>1865</u> ft.	
Packer Depth <u>1849</u> ft. Size <u>6 3/4</u> in.	Packer Depth _____ ft. Size _____ in.
Packer Depth <u>1846</u> ft. Size <u>6 3/4</u> in.	Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____	
Top Recorder Depth (Inside) <u>1854</u> ft.	Recorder Number <u>13307</u> Cap. <u>4650</u>
Bottom Recorder Depth (Outside) <u>1857</u> ft.	Recorder Number <u>13306</u> Cap. <u>4625</u>
Below Straddle Recorder Depth _____ ft.	Recorder Number _____ Cap. _____
Drilling Contractor <u>Summit Drilling Rig #1</u>	Drill Collar Length <u>315</u> I.D. <u>2.25</u> in.
Mud Type <u>Chemical</u> Viscosity <u>45</u>	Weight Pipe Length _____ I.D. _____ in.
Weight <u>9.3</u> Water Loss <u>8.0</u> cc.	Drill Pipe Length <u>1514</u> I.D. <u>3.25</u> in.
Chlorides <u>800</u> P.P.M.	Test Tool Length <u>20</u> ft. Tool Size <u>5 1/2</u> in.
Jars: Make _____ Serial Number _____	Anchor Length <u>16</u> ft. Size <u>5 1/2</u> in.
Did Well Flow? <u>No</u> Reversed Out <u>No</u>	Surface Choke Size <u>3/4</u> in. Bottom Choke Size <u>3/4</u> in.
Gravity Oil _____	Main Hole Size <u>7 7/8</u> in. Tool Joint Size <u>3 1/2</u> xh in.

Blow: Very weak blow Initial Flow Period. Died in 22 minutes.

No blow Final Flow Period.

Recovered 2 ft. of Mud with a show of oil.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer (s) <u>6:38</u> P.M.	Time Started Off Bottom <u>9:08</u> P.M.	Maximum Temperature <u>84°</u>
Initial Hydrostatic Pressure..... (A) <u>935</u> P.S.I.		
Initial Flow Period..... Minutes <u>30</u>	(B) <u>23</u> P.S.I. to	
	(C) <u>23</u> P.S.I.	
Initial Closed In Period..... Minutes <u>45</u>	(D) <u>38</u> P.S.I.	
Final Flow Period..... Minutes <u>30</u>	(E) <u>23</u> P.S.I. to	
	(F) <u>23</u> P.S.I.	
Final Closed In Period..... Minutes <u>45</u>	(G) <u>45</u> P.S.I.	
Final Hydrostatic Pressure..... (H) <u>932</u> P.S.I.		

RELEASED

EX-100

FROM CONFIDENTIAL

RICKETTS TESTING, INC.

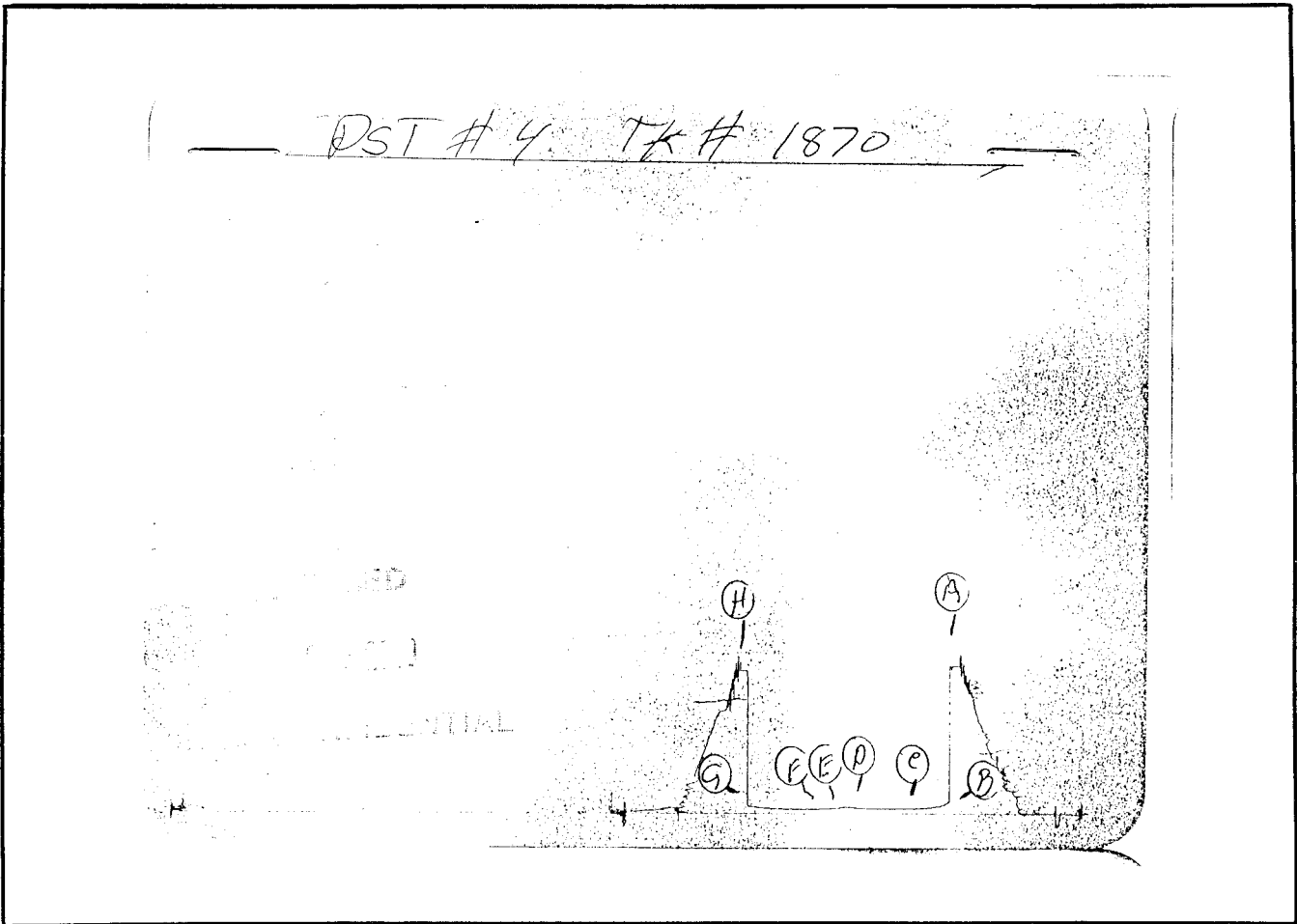
Pressure Data

Date 10-16-97 Test Ticket No. 1870
 Recorder No. 13307 Capacity 4650 Location 1854 Ft.
 Clock No. _____ Elevation 1473 K. B. Well Temperature 84 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	935 P.S.I.	Open Tool	6:38 P.M.	
B First Initial Flow Pressure	23 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	23 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	38 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	23 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	23 P.S.I.			
G Final Closed-in Pressure	45 P.S.I.			
H Final Hydrostatic Mud	932 P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.		Initial Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.		Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.		Final Shut-In Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	23	0	23	0	23	0	23	0
P 2	23	3	23	3	23	5	23	3
P 3	23	6	24	6	23	10	24	6
P 4	23	9	24	9	23	15	24	9
P 5	23	12	25	12	23	20	25	12
P 6	23	15	25	15	23	25	25	15
P 7	23	18	26	18	23	30	26	18
P 8		21	26	21		35	28	21
P 9		24	27	24		40	30	24
P10		27	27	27		45	32	27
P11		30	28	30		50	35	30
P12		33	30	33		55	37	33
P13		36	32	36		60	39	36
P14		39	34	39		65	41	39
P15		42	36	42		70	43	42
P16		45	38	45		75	45	45
P17		48		48		80		48
P18		51		51		85		51
P19		54		54		90		54
P20		57		57				57
		60		60				60



This is an actual photograph of recorder chart

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	928	935	PSI
(B) First Initial Flow Pressure	21	23	PSI
(C) First Final Flow Pressure	21	23	PSI
(D) Initial Closed-in Pressure	35	38	PSI
(E) Second Initial Flow Pressure	21	23	PSI
(F) Second Final Flow Pressure	21	23	PSI
(G) Final Closed-in Pressure	46	45	PSI
(H) Final Hydrostatic Mud	928	932	PSI