



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company A. Scott Ritchie Lease & Well No. Parkhurst #1
 Elevation 1849 Kelly Bushing Formation Tarkio Sand Effective Pay - Ft. Ticket No. 15024
 Date 10/ 11/81 Sec. 9 Twp. 14S Range. 13W County Russell State Kansas
 Test Approved by Jeff Christian Western Representative Cliff Scheuerman

Formation Test No. 1 Interval Tested from 2371 ft. to 2445 ft. Total Depth 2445 ft.
 Packer Depth - ft. Size - in. Packer Depth 2371 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) 2380 ft. Recorder Number 1563 Cap. 4200
 Bottom Recorder Depth (Outside) 2383 ft. Recorder Number 1562 Cap. 3900
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.
 Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
 Weight 9.7 Water Loss 13.6 cc. Drill Pipe Length 2356 I. D. 3.8 in.
 Chlorides 60,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 74 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 FH in.

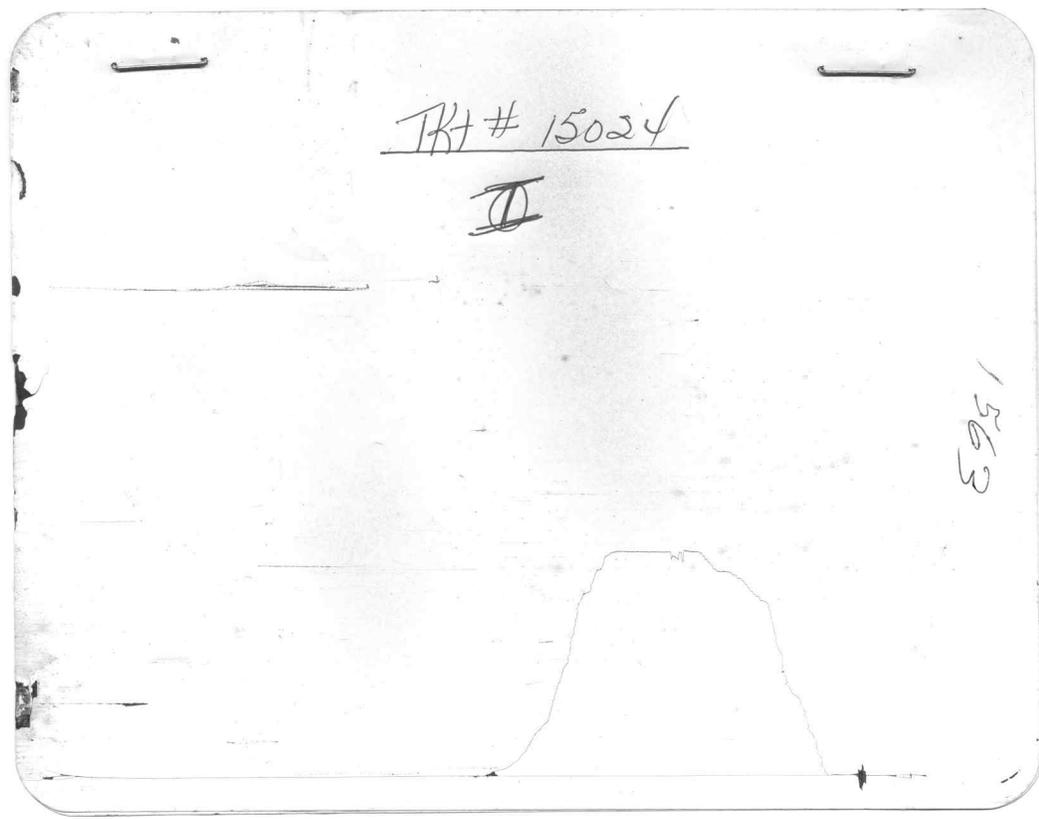
Blow: MISRUN

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

Remarks: HIT BRIDGE TWENTY FIVE FEET OFF BOTTOM . ONE PACKER.

MISRUN * NO PRESSURES AVAILABLE

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature -
 Initial Hydrostatic Pressure - (A) - P.S.I.
 Initial Flow Period - Minutes (B) - P.S.I. to (C) - P.S.I.
 Initial Closed In Period - Minutes (D) - P.S.I.
 Final Flow Period - Minutes (E) - P.S.I. to (F) - P.S.I.
 Final Closed In Period - Minutes (G) - P.S.I.
 Final Hydrostatic Pressure - (H) - P.S.I.



This is an actual photograph of recorder chart.

PRESSURE

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	MISRUN * NO PRESSURES AVAILABLE		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



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Company A. Scott Ritchie Lease & Well No. Parkhurst #1
Elevation 1849 Kelly Bushing Formation Tarkio Sand Effective Pay - Ft. Ticket No. 15025
Date 10/12/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
Test Approved by Jeff Christian Western Representative Cliff Scheuerman

Formation Test No. 2 Interval Tested from 2376 ft. to 2445 ft. Total Depth 2445 ft.
Packer Depth 2371 ft. Size 6 5/8 in. Packer Depth 2376 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) 2381 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 2384 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

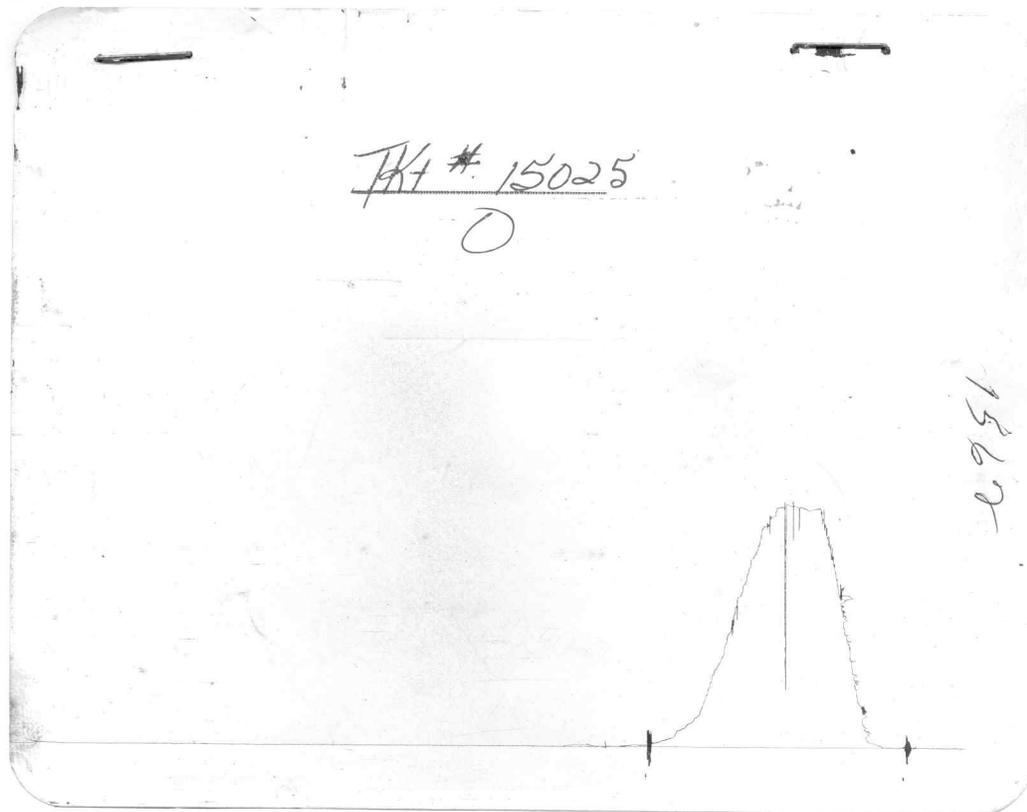
Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 13.6 cc. Drill Pipe Length 2356 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 69 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 FH in.

Blow: MLSRUN PACKER FAILURE

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

Remarks:

Time Set Packer(s) A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature
Initial Hydrostatic Pressure (A) 1281 P.S.I.
Initial Flow Period Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period Minutes (D) - P.S.I.
Final Flow Period Minutes (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period Minutes (G) - P.S.I.
Final Hydrostatic Pressure (H) 1275 P.S.I.



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud MISRUN	-	1281	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	-	1275	PSI



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Company A. Scott Ritchie Lease & Well No. Parkhurst #1
Elevation 1849 Kelly Bushing Formation Tarkio Sand Effective Pay - Ft. Ticket No. 15026
Date 10/12/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
Test Approved by Jeff Christian Western Representative Cliff Scheuerman

Formation Test No. 3 Interval Tested from 2331 ft. to 2445 ft. Total Depth 2445 ft.
Packer Depth 2326 ft. Size 6 5/8 in. Packer Depth 2331 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) 2335 ft. Recorder Number 1563 Cap. 4200
Bottom Recorder Depth (Outside) 2338 ft. Recorder Number 1562 Cap. 3900
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length - I. D. - in.
Mud Type starch Viscosity 41 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 13.6 cc. Drill Pipe Length 2356 I. D. 3.8 in.
Chlorides 60,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 114 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 FH in.

MISRUN

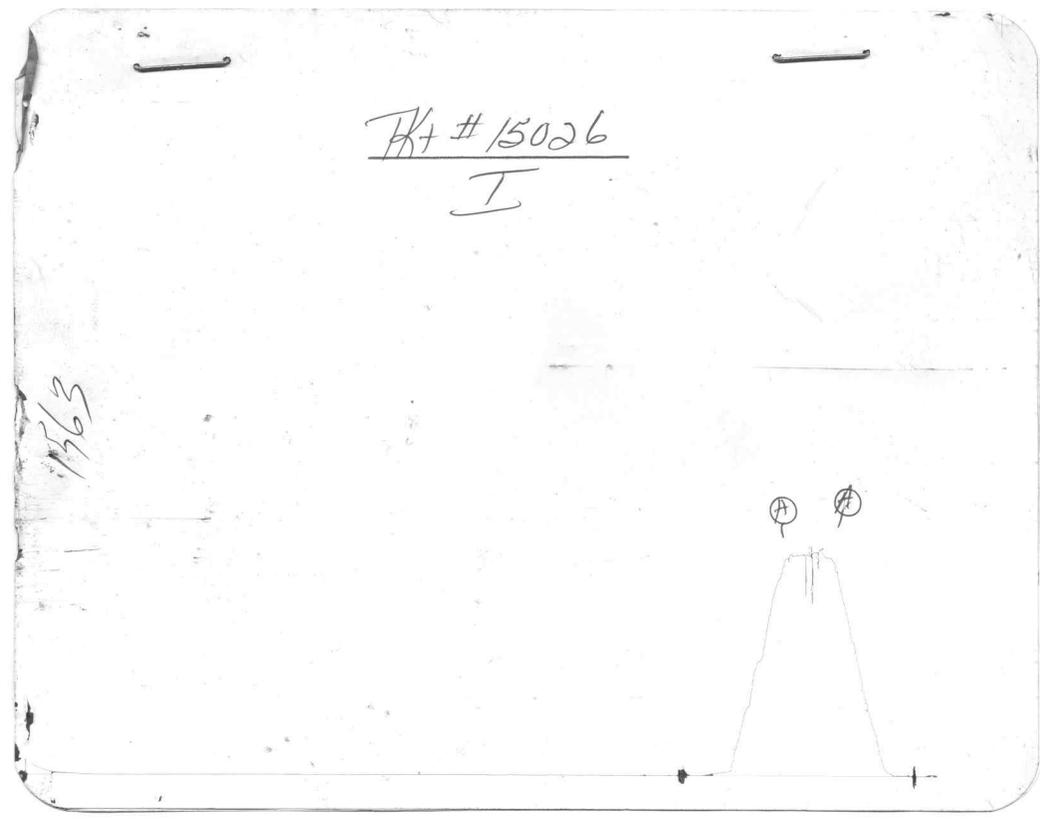
Blow: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

PACKER FAILURE

Remarks: _____

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure (A) 1262 P.S.I.
Initial Flow Period Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period Minutes (D) _____ P.S.I.
Final Flow Period Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period Minutes (G) _____ P.S.I.
Final Hydrostatic Pressure (H) 1234 P.S.I.



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	<u>MISRUN</u>	-	1262
(B) First Initial Flow Pressure	-	-	-
(C) First Final Flow Pressure	-	-	-
(D) Initial Closed-in Pressure	-	-	-
(E) Second Initial Flow Pressure	-	-	-
(F) Second Final Flow Pressure	-	-	-
(G) Final Closed-in Pressure	-	-	-
(H) Final Hydrostatic Mud	-	-	1234



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Company A. Scott Ritchie Lease & Well No. Parkhurst #1
 Elevation - Formation Tarkio Sand Effective Pay - Ft. Ticket No. 12655
 Date 10/ 13/81 Sec. 9 Twp. 14S Range 13W County Russell State Kansas
 Test Approved by Jeff Christian Western Representative Ray Schwager-Greg Saffa

Formation Test No. 4 Interval Tested from 2379 ft. to 2525 ft. Total Depth 2525 ft.
 Packer Depth 2374 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 2379 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2383 ft. Recorder Number 1562 Cap. 3900
 Bottom Recorder Depth (Outside) 2386 ft. Recorder Number 1563 Cap. 4200
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. -

Drilling Contractor Murfin Drilling Rig #19 Drill Collar Length 120 I. D. 2.2 in.
 Mud Type premix-myl0 Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 14.8 cc. Drill Pipe Length 2257 I. D. 3.8 in.
 Chlorides 52,000 P.P.M. Test Tool Length 22 ft. Tool Size 4 1/2 in.
 Jars: Make _____ Serial Number _____ Anchor Length 146 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 FH in.

Blow: Initial flow period fair building to strong blow. Final flow period strong blow throughout.

Recovered 320 ft. of gas cut muddy water few oil specks
 Recovered _____ ft. of last 120' very gassy
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 4:45 ~~AM~~ P.M. Time Started Off Bottom 6:45 ~~AM~~ P.M. Maximum Temperature 101°
 Initial Hydrostatic Pressure (A) 1327 P.S.I.
 Initial Flow Period Minutes 30 (B) 156 P.S.I. to (C) 151 P.S.I.
 Initial Closed In Period Minutes 30 (D) 594 P.S.I.
 Final Flow Period Minutes 30 (E) 202 P.S.I. to (F) 184 P.S.I.
 Final Closed In Period Minutes 30 (G) 566 P.S.I.
 Final Hydrostatic Pressure (H) 1302 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/13/81 Test Ticket No. 12655
 Recorder No. 1562 Capacity 3900 Location 2383 Ft.
 Clock No. - Elevation --- Well Temperature 101 °F

Point	Pressure	P.S.I.	Open Tool	Time	
				Given	Computed
A Initial Hydrostatic Mud	1327	P.S.I.	Open Tool	4:45P	M
B First Initial Flow Pressure	156	P.S.I.	First Flow Pressure	30	Mins. 30
C First Final Flow Pressure	151	P.S.I.	Initial Closed-in Pressure	30	Mins. 30
D Initial Closed-in Pressure	594	P.S.I.	Second Flow Pressure	30	Mins. 30
E Second Initial Flow Pressure	202	P.S.I.	Final Closed-in Pressure	30	Mins. 30
F Second Final Flow Pressure	184	P.S.I.			
G Final Closed-in Pressure	566	P.S.I.			
H Final Hydrostatic Mud	1302	P.S.I.			

PRESSURE BREAKDOWN

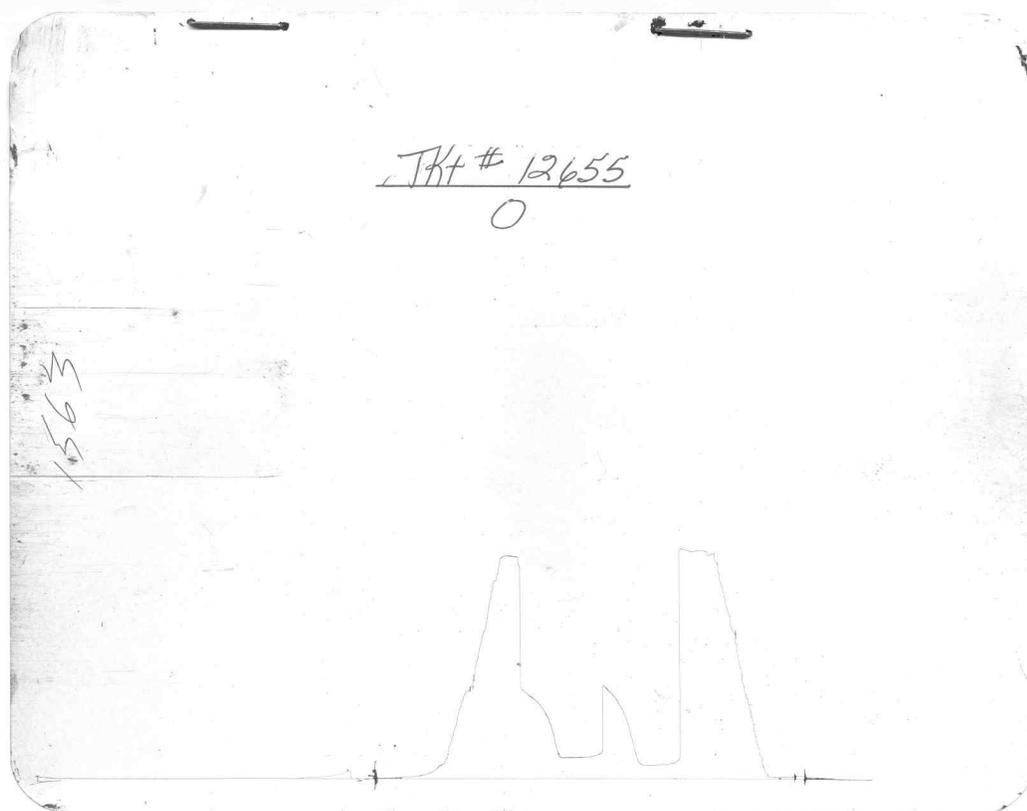
First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 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: 10 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>156</u>	<u>0</u>	<u>151</u>	<u>0</u>	<u>202</u>	<u>0</u>	<u>184</u>
P 2 <u>5</u>	<u>156</u>	<u>3</u>	<u>179</u>	<u>5</u>	<u>202</u>	<u>3</u>	<u>228</u>
P 3 <u>10</u>	<u>156</u>	<u>6</u>	<u>262</u>	<u>10</u>	<u>192</u>	<u>6</u>	<u>318</u>
P 4 <u>15</u>	<u>156</u>	<u>9</u>	<u>340</u>	<u>15</u>	<u>188</u>	<u>9</u>	<u>386</u>
P 5 <u>20</u>	<u>152</u>	<u>12</u>	<u>402</u>	<u>20</u>	<u>185</u>	<u>12</u>	<u>430</u>
P 6 <u>25</u>	<u>151</u>	<u>15</u>	<u>452</u>	<u>25</u>	<u>184</u>	<u>15</u>	<u>464</u>
P 7 <u>30</u>	<u>151</u>	<u>18</u>	<u>493</u>	<u>30</u>	<u>184</u>	<u>18</u>	<u>494</u>
P 8 _____	_____	<u>21</u>	<u>528</u>	_____	_____	<u>21</u>	<u>520</u>
P 9 _____	_____	<u>24</u>	<u>558</u>	_____	_____	<u>24</u>	<u>542</u>
P10 _____	_____	<u>27</u>	<u>580</u>	_____	_____	<u>27</u>	<u>556</u>
P11 _____	_____	<u>30</u>	<u>594</u>	_____	_____	<u>30</u>	<u>566</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	1332	1327	PSI
(B) First Initial Flow Pressure	150	156	PSI
(C) First Final Flow Pressure	150	151	PSI
(D) Initial Closed-in Pressure	579	594	PSI
(E) Second Initial Flow Pressure	180	202	PSI
(F) Second Final Flow Pressure	180	184	PSI
(G) Final Closed-in Pressure	549	566	PSI
(H) Final Hydrostatic Mud	1302	1302	PSI