Company Beren Corporation — Lease & Well No. Kelton #1

Elevation 2111 Kelly Bushing — Formation Cherokee — Effective Pay - Ft. — Ticket No. 8202

Date 11-30-80 — Sec. 12 — Twp. 27S — Range 16W — County Kiowa — State Kansas

Test Approved by Robert C Lewellyn — Western Representative Rodger A Mounts

Formation Test No. 1 — Interval Tested from 4458 ft. to 4500 ft. — Total Depth 4500 ft.

Packer Depth 4453 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4458 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4472 ft. — Recorder Number 1566 — Cap. 4300

Bottom Recorder Depth (Outside) 4500 ft. — Recorder Number 3086 — Cap. 4500

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

Drilling Contractor Sterling Drilling Rig #1 — Drill Collar Length 312 — I. D. 2.2 in.

Mud Type Drispac — Viscosity 45 — Weight Pipe Length 457 — I. D. 3.2 in.

Weight 9.3 — Water Loss 12.8 cc. — Drill Pipe Length 3663 — I. D. 3.8 in.

Chlorides 14,000 P.P.M. — Test Tool Length 26 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 419 — Anchor Length 42 ft. — Size 5½OD in.

Did Well Flow? Yes — Reversed Out - — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½XH in.

Blow: Good strong blow initial flow period. Gas to surface in ten minutes initial shut-in period. Same blow final flow period. Gas stable in 10 minutes final flow period. See attached sheet for gas measurements.

Recovered 60 ft. of slightly gas cut mud

Recovered 60 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:42 ~~A.M.~~ P.M. — Time Started Off Bottom 8:57 ~~A.M.~~ P.M. — Maximum Temperature 118

Initial Hydrostatic Pressure		(A) 2341 P.S.I.		
Initial Flow Period	Minutes 30	(B) 60 P.S.I.	to (C) 40	P.S.I.
Initial Closed In Period	Minutes 48	(D) 1030 P.S.I.		
Final Flow Period	Minutes 95	(E) 60 P.S.I.	to (F) 54	P.S.I.
Final Closed In Period	Minutes 96	(G) 1359 P.S.I.		
Final Hydrostatic Pressure		(H) 2193 P.S.I.		

GAS FLOW REPORT

Date 11-30-80 Ticket 8202 Company Beren Corporation

Well Name and No. Kelton #1 Dst No. 1 Interval Tested 4458-4500

County Kiowa State Kansas Sec. 12 Twp. 27S Rg. 16W

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
		Good strong blow (no gas to surface)	PRE FLOW			
		Gas to surface initial shut in period	SECOND FLOW			10 minutes
	10 MIN	2.5 PSIG	1/4" Orifice			14,300 C.F.P.D.
	20 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	30 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	40 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	50 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	60 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	70 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	80 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.
	90 Min	3.0 PSIG	1/4" Orifice			15,700 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 11-30-80

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 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 Beren Corporation

Authorized by Robert C Lewellyn

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 11/30/80 Test Ticket No. 8202

Recorder No. 1566 Capacity 4300 Location 4472 Ft.

Clock No. --- Elevation 2111 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2341 P.S.I.	Open Tool	4:42P M	
B First Initial Flow Pressure	60 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	40 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	1030 P.S.I.	Second Flow Pressure	90 Mins.	95 Mins.
E Second Initial Flow Pressure	60 P.S.I.	Final Closed-in Pressure	90 Mins.	96 Mins.
F Second Final Flow Pressure	54 P.S.I.			
G Final Closed-in Pressure	1359 P.S.I.			
H Final Hydrostatic Mud	2193 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	60
P 2 5	43
P 3 10	39
P 4 15	38
P 5 20	38
P 6 25	39
P 7 30	40
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	40
3	298
6	536
9	697
12	826
15	912
18	972
21	1009
24	1026
27	1034
30	1040
33	1040
36	1040
39	1038
42	1034
45	1032
48	1030

Second Flow Pressure
Breakdown: 19 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	60
5	48
10	48
15	48
20	48
25	48
30	48
35	48
40	48
45	50
50	50
55	51
60	52
65	52
70	52
75	52
80	53
85	53
90	54
95	54

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	54
3	257
6	444
9	601
12	740
15	865
18	963
21	1047
24	1120
27	1167
30	1208
33	1242
36	1266
39	1283
42	1298
45	1311
48	1324
51	1332
54	1339
57	1343
60	1347

continued next

WESTERN TESTING CO., INC.
Pressure Data

Date 11/30/80 Test Ticket No. 8202

Recorder No. 1566 Capacity 4300 Location 4472 Ft.

Clock No. --- Elevation 2111 Kelly Bushing Well Temperature 118 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2341 P.S.I.		Open Tool	4:42P M	
B	First Initial Flow Pressure	60 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	40 P.S.I.		Initial Closed-in Pressure	45 Mins.	48 Mins.
D	Initial Closed-in Pressure	1030 P.S.I.		Second Flow Pressure	90 Mins.	95 Mins.
E	Second Initial Flow Pressure	60 P.S.I.		Final Closed-in Pressure	90 Mins.	96 Mins.
F	Second Final Flow Pressure	54 P.S.I.				
G	Final Closed-in Pressure	1359 P.S.I.				
H	Final Hydrostatic Mud	2193 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: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

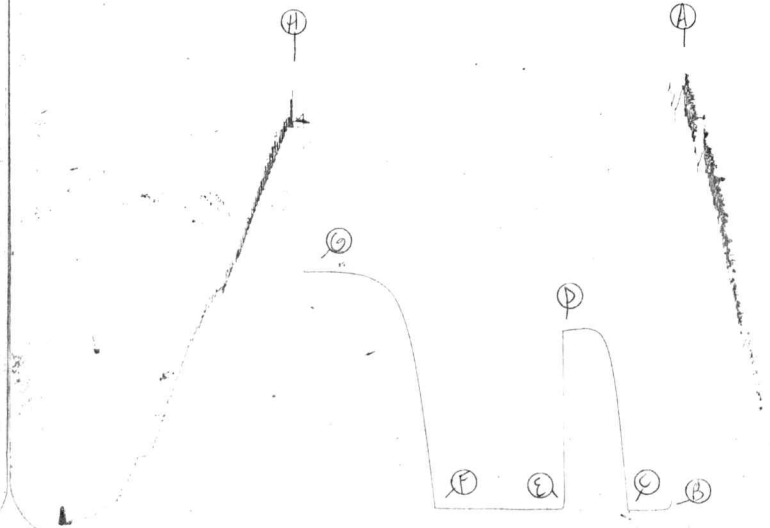
Second Flow Pressure
Breakdown: 19 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 32 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						63	1351
P 2						66	1353
P 3						69	1355
P 4						72	1357
P 5						75	1359
P 6						78	1359
P 7						81	1359
P 8						84	1359
P 9						87	1359
P10						90	1359
P11						93	1359
P12						96	1359
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

IKT #8202

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Company Beren Corporation — Lease & Well No. Kelton #1

Elevation 2111 Kelly Bushing — Formation Mississippi — Effective Pay - Ft. — Ticket No. 8203

Date 12-1-80 — Sec. 12 — Twp. 27S — Range 16W — County Kiowa — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Rodger A Mounts

Formation Test No. 2 — Interval Tested from 4506 ft. to 4524 ft. — Total Depth 4524 ft.

Packer Depth 4501 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4506 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4516 ft. — Recorder Number 1566 — Cap. 4300

Bottom Recorder Depth (Outside) 4524 ft. — Recorder Number 3086 — Cap. 4500

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

Drilling Contractor Sterling Rig #1 — Drill Collar Length 340 — I. D. 2.2 in.

Mud Type Drispac — Viscosity 45 — Weight Pipe Length 457 — I. D. 3.2 in.

Weight 9.3 — Water Loss 12.8 cc. — Drill Pipe Length 3683 — I. D. 3.8 in.

Chlorides 14,000 P.P.M. — Test Tool Length 26 ft. — Tool Size 5½OD in.

Jars: Make WIC — Serial Number 419 — Anchor Length 18 ft. — Size 5½OD in.

Did Well Flow? Yes — 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 4½XH in.

Blow: Good strong blow. Gas to surface 12 minutes initial flow period. See attached sheet for gas measurements.

Recovered 120 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:33 ~~A.M.~~ ~~P.M.~~ — Time Started Off Bottom 2:48 ~~A.M.~~ ~~P.M.~~ — Maximum Temperature 121

Initial Hydrostatic Pressure			(A)	2256	P.S.I.	
Initial Flow Period	Minutes	35	(B)	67	P.S.I. to (C)	57 P.S.I.
Initial Closed In Period	Minutes	48	(D)	1272	P.S.I.	
Final Flow Period	Minutes	95	(E)	71	P.S.I. to (F)	68 P.S.I.
Final Closed In Period	Minutes	102	(G)	1225	P.S.I.	
Final Hydrostatic Pressure			(H)	2241	P.S.I.	

WTC-1

GAS FLOW REPORT

Date 12/1/80 Ticket 8203 Company Beren Corporation

Well Name and No. Kelton #1 Dst No. 2 Interval Tested 4506'-4524'

County Kiowa State Kansas Sec. 12 Twp. 27S Rg. 16W

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
Gas to surface in twelve minutes. **PRE FLOW**						
	15 min.		2.0 PSIG		1/4" orifice	12,700 CFPD
	20 min.		5.0 PSIG		1/4" orifice	20,700 CFPD
	25 min.		6.0 PSIG		1/4" orifice	22,900 CFPD
	30 min.		7.0 PSIG		1/4" orifice	25,000 CFPD
SECOND FLOW						
	10 min.		8.0 PSIG		1/4" orifice	27,000 CFPD
	20 min.		8.0 PSIG		1/4" orifice	27,000 CFPD
	30 min.		8.0 PSIG		1/4" orifice	27,000 CFPD
	40 min.		8.0 PSIG		1/4" orifice	27,000 CFPD
	50 min.		7.5 PSIG		1/4" orifice	26,100 CFPD
	60 min.		7.5 PSIG		1/4" orifice	26,100 CFPD
	70 min.		7.0 PSIG		1/4" orifice	25,000 CFPD
	80 min.		7.0 PSIG		1/4" orifice	25,000 CFPD
	90 min.		6.5 PSIG		1/4" orifice	23,900 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 12/1/80

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 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 Beren Corporation

Authorized by Robert C. Lewellyn

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 12-1-80 Test Ticket No. 8203

Recorder No. 1566 Capacity 4300 Location 4516 Ft.

Clock No. - Elevation 2111 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2256 P.S.I.	Open Tool	10:33A M	
B First Initial Flow Pressure	67 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C First Final Flow Pressure	57 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	1272 P.S.I.	Second Flow Pressure	90 Mins.	95 Mins.
E Second Initial Flow Pressure	71 P.S.I.	Final Closed-in Pressure	90 Mins.	102 Mins.
F Second Final Flow Pressure	68 P.S.I.			
G Final Closed-in Pressure	1225 P.S.I.			
H Final Hydrostatic Mud	2241 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	67
P 2 5	54
P 3 10	52
P 4 15	52
P 5 20	52
P 6 25	54
P 7 30	55
P 8 35	57
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	57
3	547
6	826
9	976
12	1062
15	1116
18	1150
21	1175
24	1195
27	1212
30	1225
33	1236
36	1244
39	1251
42	1257
45	1264
48	1272

Second Flow Pressure
Breakdown: 19 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	71
5	50
10	52
15	52
20	52
25	53
30	55
35	56
40	57
45	58
50	59
55	59
60	60
65	62
70	63
75	64
80	65
85	66
90	67
95	68

Final Shut-In
Breakdown: 34 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	68
3	420
6	669
9	809
12	910
15	968
18	1009
21	1039
24	1060
27	1077
30	1092
33	1101
36	1111
39	1122
42	1128
45	1137
48	1146
51	1154
54	1161
57	1167
60	1171

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 12-1-80 Test Ticket No. 8203

Recorder No. 1566 Capacity 4300 Location 4516 Ft.

Clock No. - Elevation 2111 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2256 P.S.I.	Open Tool	10:33A M	
B First Initial Flow Pressure	67 P.S.I.	First Flow Pressure	30 Mins.	35 Mins.
C First Final Flow Pressure	57 P.S.I.	Initial Closed-in Pressure	45 Mins.	48 Mins.
D Initial Closed-in Pressure	1272 P.S.I.	Second Flow Pressure	90 Mins.	95 Mins.
E Second Initial Flow Pressure	71 P.S.I.	Final Closed-in Pressure	90 Mins.	102 Mins.
F Second Final Flow Pressure	68 P.S.I.			
G Final Closed-in Pressure	1225 P.S.I.			
H Final Hydrostatic Mud	2241 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 19 Inc.
of 5 mins. and a
final inc. of 0 Min.

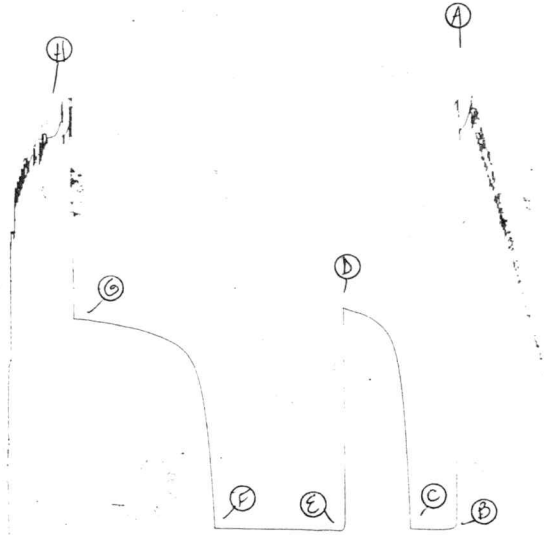
Final Shut-In
Breakdown: 34 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1173
P 2						66	1180
P 3						69	1186
P 4						72	1190
P 5						75	1197
P 6						78	1199
P 7						81	1203
P 8						84	1208
P 9						87	1210
P10						90	1214
P11						93	1218
P12						96	1222
P13						99	1224
P14						102	1225
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 8203

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1566



Company: Beren Corporation — Lease & Well No.: Kelton #1

Elevation: 2111 Kelly Bushing — Formation: Kinderhook — Effective Pay: - Ft. — Ticket No.: 8204

Date: 12-2-80 — Sec.: 12 — Twp.: 27S — Range: 16W — County: Kiowa — State: Kansas

Test Approved by: Robert C Lewellyn — Western Representative: Rodger A. Mounts

Formation Test No. 3 — Interval Tested from 4559 ft. to 4575 ft. — Total Depth 4575 ft.

Packer Depth 4554 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4559 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4564 ft. — Recorder Number 1566 — Cap. 4300

Bottom Recorder Depth (Outside) 4575 ft. — Recorder Number 3086 — Cap. 4500

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

Drilling Contractor Sterling Drl Rig #1 — Drill Collar Length 340 — I. D. 2.2 in.

Mud Type Drispac — Viscosity 46 — Weight Pipe Length 457 — I. D. 3.2 in.

Weight 9.3 — Water Loss 13.4 cc. — Drill Pipe Length 3736 — I. D. 3.8 in.

Chlorides 14,000 P.P.M. — Test Tool Length 26 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 419 — Anchor Length 16 ft. — Size 5½OD 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 4½XH in.

Blow: Weak blow died ten minutes initial flow period. No blow final flow period.

Recovered 62 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:27 A.M. P.M. — Time Started Off Bottom 6:27 A.M. P.M. — Maximum Temperature 123

Initial Hydrostatic Pressure			(A) 2284	P.S.I.		
Initial Flow Period	Minutes 30	(B) 45	P.S.I. to	(C) 39	P.S.I.	
Initial Closed In Period	Minutes 36	(D) 59	P.S.I.			
Final Flow Period	Minutes 30	(E) 52	P.S.I. to	(F) 45	P.S.I.	
Final Closed In Period	Minutes 33	(G) 58	P.S.I.			
Final Hydrostatic Pressure			(H) 2284	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 12/2/80 Test Ticket No. 8204

Recorder No. 1566 Capacity 4300 Location 4564 Ft.

Clock No. --- Elevation 2111 Kelly Bushing Well Temperature 123 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2284 P.S.I.		Open Tool	4:27A M	
B	First Initial Flow Pressure	45 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	38 P.S.I.		Initial Closed-in Pressure	30 Mins.	36 Mins.
D	Initial Closed-in Pressure	59 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	52 P.S.I.		Final Closed-in Pressure	30 Mins.	33 Mins.
F	Second Final Flow Pressure	45 P.S.I.				
G	Final Closed-in Pressure	58 P.S.I.				
H	Final Hydrostatic Mud	2284 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	45
P 2	5	43
P 3	10	40
P 4	15	39
P 5	20	39
P 6	25	39
P 7	30	39
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 12 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	39
	3	38
	6	38
	9	39
	12	40
	15	43
	18	45
	21	49
	24	50
	27	51
	30	53
	33	56
	36	59

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

Point	Minutes	Press.
	0	52
	5	49
	10	45
	15	45
	20	45
	25	45
	30	45

Final Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	45
	3	45
	6	45
	9	45
	12	49
	15	52
	18	54
	21	56
	24	57
	27	58
	30	58
	33	58

TKT # 8204

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