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

Elevation =-- — Formation ------ — Effective Pay -- Ft. — Ticket No. 8276

Date 12/20/80 — Sec. 10 — Twp. 27S — Range 16W — County Kiowa — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Jim Wondra

Formation Test No. 1 — Interval Tested from 4518 ft. to 4560 ft. — Total Depth 4560 ft.

Packer Depth 4513 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4518 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4550 ft. — Recorder Number 2609 — Cap. 4150

Bottom Recorder Depth (Outside) 4553 ft. — Recorder Number 3351 — Cap. 4000

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

Drilling Contractor Sterling Drlg. Rig #5 — Drill Collar Length 360 — I. D. 2¼ in.

Mud Type drispac — Viscosity 44 — Weight Pipe Length 455 — I. D. 2.7 in.

Weight 9.2 — Water Loss 10.4 cc. — Drill Pipe Length 3679 — I. D. 3.8 in.

Chlorides 10,000 P.P.M. — Test Tool Length 24 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 42 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 4½FH in.

Blow: Strong blow throughout test. Gas to surface in five minutes. See attached sheet for gas measurements.

Recovered 90 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Overrun fifteen minutes on final shut-in (working on rig)

Time Set Packer(s) 9:30 A.M. ~~P.M.~~ — Time Started Off Bottom 1:30 ~~A.M.~~ P.M. — Maximum Temperature 125°

Initial Hydrostatic Pressure			(A) 2321	P.S.I.		
Initial Flow Period	Minutes 30	(B) 97	P.S.I. to	(C) 60	P.S.I.	
Initial Closed In Period	Minutes 45	(D) 1525	P.S.I.			
Final Flow Period	Minutes 90	(E) 100	P.S.I. to	(F) 71	P.S.I.	
Final Closed In Period	Minutes 102	(G) 1527	P.S.I.			
Final Hydrostatic Pressure			(H) 2276	P.S.I.		

GAS FLOW REPORT

Date 12/20/80 Ticket 8276 Company Beren Corporation

Well Name and No. Clarkson #1 Dst No. 1 Interval Tested 4518'-4560'

County Kiowa State Kansas Sec. 10 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
			PRE FLOW			
Gas to surface in five minutes.			**SECOND FLOW**			
	10 min.	4" of water		1/2" orifice		12,500 CFPD
	20 min.	3.6" of water		1/2" orifice		11,900 CFPD
	30 min.	3.6" of water		1/2" orifice		11,900 CFPD
	40 min.	3.6" of water		1/2" orifice		11,900 CFPD
	50 min.	3.6" of water		1/2" orifice		11,900 CFPD
	60 min.	5.0" of water		1/2" orifice		14,100 CFPD
	70 min.	5.0" of water		1/2" orifice		14,100 CFPD
	80 min.	5.0" of water		1/2" orifice		14,100 CFPD
	90 min.	5.0" of water		1/2" orifice		14,100 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ------ Date to be Invoiced 12/20/80

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 12-20-80 Test Ticket No. 8276

Recorder No. 2607 Capacity 4150 Location 4550 Ft.

Clock No. - Elevation - Well Temperature 125 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2321	P.S.I.	Open Tool	9:30A.	M		
B	First Initial Flow Pressure	97	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	60	P.S.I.	Initial Closed-in Pressure	45	Mins.	45	Mins.
D	Initial Closed-in Pressure	1525	P.S.I.	Second Flow Pressure	90	Mins.	90	Mins.
E	Second Initial Flow Pressure	100	P.S.I.	Final Closed-in Pressure	105	Mins.	102	Mins.
F	Second Final Flow Pressure	71	P.S.I.					
G	Final Closed-in Pressure	1527	P.S.I.					
H	Final Hydrostatic Mud	2276	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	97
P 2 5	76
P 3 10	68
P 4 15	62
P 5 20	59
P 6 25	60
P 7 30	60
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	60
3	358
6	564
9	775
12	946
15	1117
18	1249
21	1347
24	1408
27	1452
30	1479
33	1496
36	1507
39	1516
42	1521
45	1525

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	100
5	82
10	78
15	77
20	77
25	77
30	77
35	77
40	77
45	75
50	74
55	72
60	72
65	72
70	72
75	72
80	72
85	71
90	71

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

Point Minutes	Press.
0	71
3	336
6	562
9	754
12	928
15	1091
18	1291
21	1323
24	1395
27	1443
30	1469
33	1485
36	1498
39	1505
42	1511
45	1515
48	1517
51	1519
54	1521
57	1522
60	1523

Cont'd on next page

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20-80 Test Ticket No. 8276

Recorder No. 2607 Capacity 4150 Location 4550 Ft.

Clock No. - Elevation - Well Temperature 125 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2321	P.S.I.	Open Tool	9:30A.	M		
B	First Initial Flow Pressure	97	P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	60	P.S.I.	Initial Closed-in Pressure	45	Mins.	45	Mins.
D	Initial Closed-in Pressure	1525	P.S.I.	Second Flow Pressure	90	Mins.	90	Mins.
E	Second Initial Flow Pressure	100	P.S.I.	Final Closed-in Pressure	105	Mins.	102	Mins.
F	Second Final Flow Pressure	71	P.S.I.					
G	Final Closed-in Pressure	1527	P.S.I.					
H	Final Hydrostatic Mud	2276	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: 18 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	1524
P 2						66	1525
P 3						69	1526
P 4						72	1527
P 5						75	1527
P 6						78	1527
P 7						81	1527
P 8						84	1527
P 9						87	1527
P10						90	1527
P11						93	1527
P12						96	1527
P13						99	1527
P14						102	1527
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 8276

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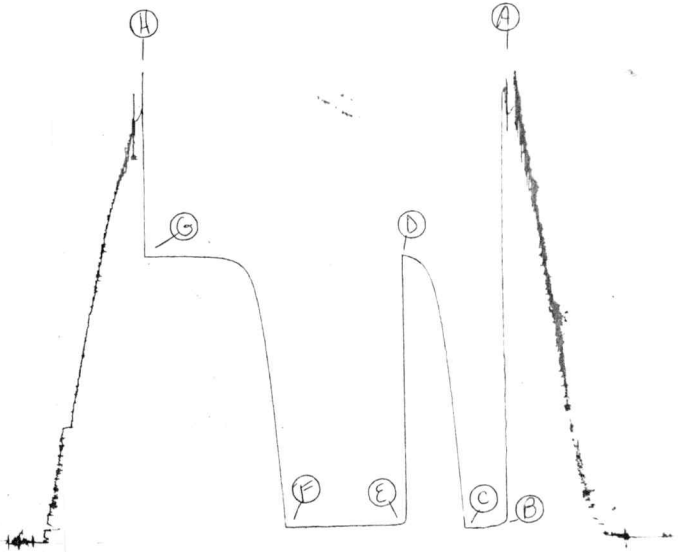

Company Beren Corporation — Lease & Well No. Clarkson #1

Elevation ----- — Formation Mississippi — Effective Pay - Ft. — Ticket No. 8277

Date 12/20/80 — Sec. 10 — Twp. 27S — Range 16W — County Kiowa — State Kansas

Test Approved by Robert C. Lewellyn — Western Representative Jim Wondra

Formation Test No. 2 — Interval Tested from 4577 ft. to 4599 ft. — Total Depth 4599 ft.

Packer Depth 4572 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4577 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4589 ft. — Recorder Number 2607 — Cap. 4150

Bottom Recorder Depth (Outside) 4592 ft. — Recorder Number 3351 — Cap. 4000

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

Drilling Contractor Sterling Drilling Rig #5 — Drill Collar Length 360 — I. D. 2¼ in.

Mud Type drispac — Viscosity 48 — Weight Pipe Length 455 — I. D. 2.7 in.

Weight 9.4 — Water Loss 16.8 cc. — Drill Pipe Length 3738 — I. D. 3.8 in.

Chlorides 18,000 P.P.M. — Test Tool Length 24 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 22 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 4½FH in.

Blow: Fair blow throughout test.

Recovered 100 ft. of drilling mud (specks of oil on top of tool)

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 2:25 A.M. ~~P.M.~~ — Time Started Off Bottom 7:10 A.M. ~~P.M.~~ — Maximum Temperature 126°

Initial Hydrostatic Pressure			(A) 2268	P.S.I.		
Initial Flow Period	Minutes 30	(B) 107	P.S.I. to	(C) 68	P.S.I.	
Initial Closed In Period	Minutes 57	(D) 586	P.S.I.			
Final Flow Period	Minutes 102	(E) 120	P.S.I. to	(F) 94	P.S.I.	
Final Closed In Period	Minutes 90	(G) 676	P.S.I.			
Final Hydrostatic Pressure			(H) 2268	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20-80 Test Ticket No. 8277

Recorder No. 2607 Capacity 4150 Location 4589 Ft.

Clock No. - Elevation - Well Temperature 126 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2268 P.S.I.		Open Tool	2:25 M	
B	First Initial Flow Pressure	107 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	68 P.S.I.		Initial Closed-in Pressure	45 Mins.	57 Mins.
D	Initial Closed-in Pressure	586 P.S.I.		Second Flow Pressure	120 Mins.	102 Mins.
E	Second Initial Flow Pressure	120 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	94 P.S.I.				
G	Final Closed-in Pressure	676 P.S.I.				
H	Final Hydrostatic Mud	2268 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	107
P 2 5	78
P 3 10	72
P 4 15	70
P 5 20	69
P 6 25	68
P 7 30	68
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	68
3	69
6	75
9	84
12	95
15	114
18	136
21	161
24	187
27	229
30	263
33	294
36	328
39	365
42	401
45	439
48	475
51	514
54	554
57	586

Second Flow Pressure
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	120
5	101
10	94
15	91
20	91
25	91
30	91
35	90
40	90
45	89
50	89
55	89
60	89
65	90
70	90
75	91
80	91
85	91
90	91
95	92
100	93

Cont'd on next page

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	95
3	95
6	97
9	103
12	112
15	127
18	146
21	164
24	187
27	206
30	230
33	251
36	270
39	293
42	308
45	332
48	358
51	379
54	403
57	423
60	448

Cont'd on next page

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20-80 Test Ticket No. 8277

Recorder No. 2607 Capacity 4150 Location 4589 Ft.

Clock No. - Elevation - Well Temperature 126 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2268	P.S.I.	Open Tool	2:25 M	
B	First Initial Flow Pressure	107	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	68	P.S.I.	Initial Closed-in Pressure	45 Mins.	57 Mins.
D	Initial Closed-in Pressure	586	P.S.I.	Second Flow Pressure	120 Mins.	102 Mins.
E	Second Initial Flow Pressure	120	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	94	P.S.I.			
G	Final Closed-in Pressure	676	P.S.I.			
H	Final Hydrostatic Mud	2268	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: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 24 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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				105	93	63	474
P 2				110	94	66	493
P 3				115	94	69	521
P 4				120	94	72	543
P 5						75	566
P 6						78	585
P 7						81	608
P 8						84	627
P 9						87	649
P10						90	676
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

IKT # 8277

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